

2020 IEEE International Geoscience and Remote Sensing Symposium

September 26 - October 2, 2020 • Virtual Symposium

Call for Papers

[Download PDF Call for Papers](#)

Important Dates	
Invited Session Proposal Deadline	4 October 2019
Invited Session Proposal Results	4 November 2019
Paper Submission System On-Line	11 November 2019
Tutorial Proposal Deadline	11 November 2019
Tutorial Proposal Results	9 December 2019
Paper Submission Deadline	15 January 2020 20 January 2020
Student Paper Competition Deadline	15 January 2020
Travel Support Application Deadline	15 January 2020
Submission Status Available Online	29 March 2020
Registration Open	11 June 2020 through 2 October 2020
Final Submission Deadline	29 May 2020 19 June 2020
Presentation Video Upload Deadline	10 July 2020
Registration deadline for author with accepted paper(s) and video upload(s)	29 May 2020 15 July 2020
Presentation Videos Available	21 September 2020
IGARSS 2020	19-24 July 2020 26 September - 2 October 2020

Welcome to Waikoloa, Hawaii!

IGARSS 2020 - Remote Sensing: Global Perspectives for Local Solutions - was to be held on the Big Island of Hawaii. This island - over 4,000 square miles - has 10 of the world's 14 climate zones and lends itself to discovery for our diverse global viewpoints and discussions. You will also find the longest running active volcano in the world (continuous since 1983) and the world's largest active Volcano (Mauna Loa.)

The IGARSS 2020 conference was to be held at the Hilton Waikoloa Village on 62 oceanfront acres along the Kohala Coast. It is 20 minutes north of the Kona International Airport. This property offers tropical gardens, wildlife, Asian and Polynesian art, golf courses, tennis courts, shopping, restaurants, snorkeling, a nearby white sand beach (anaeho'omalua bay), salt-water lagoon, fresh water swimming pools, waterfalls and slides, dolphin encounters, sea turtles, and much more.

IGARSS 2020 is offering unique perspectives, discussions, research, solutions, and an opportunity to network in a beautiful environment.

Hosted by the IEEE Geoscience and Remote Sensing Society, the 2020 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2020) will be held Saturday, September 26 through Friday, October 2, 2020 in a virtual setting. The main theme of the 2020 symposium is "Remote Sensing: Global Perspectives for Local Solutions".

On behalf of the IEEE Geoscience and Remote Sensing Society and the IGARSS 2020 Organizing Committee, we invite you to participate in IGARSS 2020, the world's premier symposium on geoscience, remote sensing and related topics. We look forward to meeting you online during IGARSS 2020.

Technical Program

IGARSS is a premier event in remote sensing and provides an ideal forum for obtaining up-to-date information about the latest developments, exchanging ideas, identifying future trends and making networking with the international geoscience and remote sensing community.

The IGARSS 2020 technical program will include the following general themes:

Data Analysis Methods, Classification, and Data Mining
Atmosphere
Cryosphere
Oceans
Land
Missions, Sensors and Calibration
Data Management and Education

In addition, special scientific themes will be addressed, including:

Monitoring and damage assessment of volcanoes and other natural disasters
Monitoring and Preservation of Natural Reserves
Coastal environment, its change and the impact of rising sea levels
The Great Pacific Garbage Patch
NewSpace in Remote Sensing
Artificial Intelligence in Remote Sensors
Remote sensing parameters and models for radiation energy budget

Student Paper Competition

IEEE Geoscience and Remote Sensing Society student members are invited to submit a paper to the IGARSS [Student Paper Competition](#). The selection of the finalist papers will be done by a committee of experts, and the selected students will present their papers during a special session at the Symposium.

Publication of Proceedings

Accepted papers will be published in the proceedings on IEEE Xplore® only if presented at the Symposium by one of the listed authors, duly registered.

Paper Submission

Authors who wish to give a presentation are requested to submit a paper (minimum of 2 pages; maximum of four pages). [Paper Submission](#) is now open!

Discussion Forum

Check out the [IGARSS Discussion Forum](#) to engage in conversation over various Paper topics, GRSS related fields, and IGARSS Sponsors

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Last updated Friday, September 04, 2020

Support: webmaster@igarss2020.org Host:
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IGARSS 2020 Registration

Registration Terms and Policies

An existing registration record cannot be transferred to any other person.

Non-Presented Paper (No Show) Policy

The IEEE Geoscience and Remote Sensing Society enforces a "no show" policy. Any accepted paper included in the final program is expected to have at least one author or qualified proxy attend and present the paper at the conference. Authors of the accepted papers included in the final program who do not attend and present at the conference will be added to a "No Show List," compiled by the Society. The "no show" papers will not be published by IEEE on IEEE Xplore® or other public access forums, but these papers will be distributed as part of the on-site electronic proceedings and the copyright of these papers will belong to the IEEE.

Exceptions to this policy will be made by the Technical Program Chair of the conference only if there is evidence that the no show occurred because of unanticipated events beyond the control of the authors, and every option available to the authors to present the paper was exhausted. The no show authors may appeal the decision of the Technical Program Chair.

Currency & Payment

All conference transactions shall be in US Dollars.

The conference accepts payment by credit cards, check and bank transfer. Attendees not using credit cards must forward a check or money order payable to IEEE IGARSS 2020 and drawn on a US bank or a US branch of an International bank for the total registration amount in US Dollars. There will be a \$50 fee assessed for returned checks or for chargebacks issued on valid credit card charges. Registration payments must be received within 10 days of registration.

Payment by Wire Transfer and Check will not be allowed from 30 days before the symposium.

Refund Policy

All registrations are non-refundable.

If you have any questions about registering, please contact the IGARSS registrar at +1-979-846-6800 or by email to registration@igarss2020.org.

1. One copy of proceedings in electronic format (delivered online) is included in the

conference registration fee.

2. The regular registration fee **does not include** tutorials.
3. An existing registration record cannot be transferred to any other person.

Each attendee must register separately. No registration transfers. Attendees not using credit cards must forward a check or money order payable to **IEEE IGARSS 2020** and drawn on a US bank or a US branch of an International bank for the total registration amount in US Dollars. There will be a \$50 fee assessed for returned checks or for chargebacks issued on valid credit card charges. Registration payments must be received by the registration deadline for the rate at which you registered; if payment is not received by the deadline, you will be responsible for the higher rate. **Refund policy: No refunds will be permitted.**

Add to existing registration

If you have already registered and know your confirmation number and password, click the button below to add items to your existing registration record. **Please note, this cannot be used to register an additional person to IGARSS 2020, but add-on items to an existing registration only.**

Add to Existing Registration

If you have not yet registered for IGARSS 2020, select your membership category below, then click the **Continue Registration** button, below.

Registration Fees

Every accepted paper must be linked to a registered person by 15 July 2020. Any paper not linked to a registered person by 15 July 2020 will be withdrawn from the technical program and proceedings.

IGARSS 2020 Registration Fee Schedule

Select your membership category. Selection of tutorials and verification of linked papers is performed on the subsequent pages. Click on the <i>Continue</i> button below to proceed with registration.		Rate
Each registration includes admission to the virtual conference and one copy of the proceedings in electronic format.	<input type="radio"/> GRSS Member	US \$10
	<input type="radio"/> IEEE Member	US \$10
	<input type="radio"/> Non-Member	US \$10
	<input type="radio"/> GRSS Student Member	US \$10
	<input type="radio"/> IEEE Student Member	US \$10
	<input type="radio"/> Student Non-Member	US \$10
Only for Authors: The registration fee will be waived, if at least one paper is registered (per-paper fee applies).		
Registration Fees per Paper		US\$ 120
Selection of tutorials and verification of linked papers is performed on the subsequent pages. Click on the <i>Continue</i> button below to proceed with registration.		

Tutorials on Saturday 26 September and Sunday 27 September Saturday, September 26, 05:00 - 09:00 and Sunday, September 27, 05:00 - 09:00 (Two parts) Tutorial FD-1: Earth Observation Big Data Intelligence: theory and practice of deep learning and big data mining Tutorial FD-2: Machine Learning in Remote Sensing - Theory and Applications for Earth Observation Tutorial FD-3: Mathematical Morphology in Interpolations and Extrapolations Tutorial FD-4: Natural disasters and hazards monitoring using Earth Observation data Tutorial FD-5: Open Source Imaging Spectroscopy: Visualization, Analysis, and Atmospheric Correction Tutorial FD-6: Scalable Machine Learning with High Performance and Cloud Computing Tutorial FD-7: TOPS Sentinel-1 SAR Interferometry for ground motion detection and monitoring	Full-Day	US \$100
Sunday, September 27, 05:00 - 09:00 Tutorial HD-1: 3D/4D Radar Tomography: concepts, practice and applications Tutorial HD-2: Analysis-Ready Spatio-Temporal Big Data Cubes: Standards, Tools, Services Tutorial HD-3: Crop physiological assessments using high resolution RGB images. Tutorial HD-4: Predictive Modeling of Hyperspectral Responses of Natural Materials: Challenges and Applications Tutorial HD-5: Remote Sensing with Reflected Global	Half-Day	US \$50

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By submitting your registration details, you acknowledge that:

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Presenting Papers

Please enter the paper ID(s) of the paper(s) you will cover with your registration here.

Every accepted paper must be linked to a registered person. Any paper not linked to a registered person by 15 July 2020 will be withdrawn from the technical program and proceedings. Please note that papers which are not registered will not be included in the IEEE Xplore Portal.

Enter the 4-digit numeric ID (e.g., 1234) given when you submitted your paper.

Paper #1

Paper #2

Paper #3

Paper #4

If you need to link more than 4 papers, **contact us at**
registration@igarss2020.org

Conference Organizer Code

If you have been provided with a *conference organizer code*, please enter it here before clicking on the *Continue Registration* button

Conference Organizer Code

Continue Registration

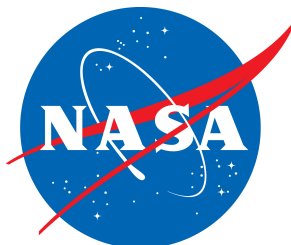
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Honorary Exhibitors

Exhibitor

[Resonon, Inc.](#)

Resonon designs and manufactures hyperspectral imaging systems for laboratory, outdoor, and airborne remote sensing applications.



Contact: Adam Stern, Senior Scientist

Email: stern@resonon.com

[SI Imaging Services](#)

SI Imaging Services (SIIS) is the exclusive worldwide marketing and sales representative of KOMPSAT series KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A and KOMPSAT-5. SIIS contributes Remote Sensing and Earth observation industries societies by providing very high resolution optical and SAR images through over 110 sales partners worldwide. Customers from industries as well as government and international agencies are using KOMPSAT imagery for their missions and researches and achieve good results in several remote sensing applications such as mapping, agriculture, disaster management, and so on. SIIS started its business as a satellite image and service provider and extended its business to KOMPSAT operation.



Contact: Hana Kwon, Manager, Public Relations

Email: publicrelations@si-imaging.com

[MDPI](#)

MDPI is a pioneer in scholarly open access publishing and has supported academic communities since 1996. Remote Sensing (ISSN 2072-4292) is a peer-reviewed open access journal about the science and application of remote sensing technology, and is published semi-monthly online by MDPI. It is indexed by the Science Citation Index Expanded (Web of Science), Scopus (2018 CiteScore: 4.89), Ei Compendex, and other databases. All manuscripts are peer-reviewed and a first decision provided to authors approximately 19 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2019).



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Contact: Kristy Zhang, Marketing Specialist
Email: kristy.zhang@mdpi.com

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HySpex cameras are high-performance and versatile hyperspectral cameras for applications - ranging from UAV/airborne to field, lab and industrial use of imaging spectroscopy. HySpex operate in the 0.4–2.5µm wavelength range with industry-leading performance, providing scientific-grade quality to our industry, academic, government and defense partners. HySpex is part of Norsk Elektro Optikk AS (NEO), a privately-owned Norwegian company focused on high-end research within the field of electro-optics.



Contact: Hallvard Skjerpig, CCO
Email: hallvard@neo.no

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Contact: Irma Britton, Senior Editor
Email: irma.britton@taylorandfrancis.com

Japan Aerospace Exploration Agency (JAXA)

The JAXA is a National Research and Development Agency that were designated to support the Japanese government's overall aerospace development and utilization.

Contact: Kazuo Umezawa, Associate Senior Engineer
Email: umezawa.kazuo@jaxa.jp

Headwall Photonics

Headwall's products are used every day in the lab, in the field, on the ground, under water, in the air, and in space. The company is a leading designer and manufacturer of spectral instrumentation for remote sensing, advanced machine vision, government/defense, and medical/biotech markets. The company's core technologies are producing master-quality holographic diffraction gratings, integrating compact, high-performance spectral modules into turnkey or OEM instrumentation, and creating and selling hyperspectral and now LiDAR solutions for data acquisition and exploitation. Headwall enjoys a market leadership position by designing and manufacturing spectral solutions that are customized for application-specific performance for end-users and OEM customers. The Company is based in Massachusetts where it has two facilities. European operations are located in Belgium. Recently a team from Headwall was awarded OSA's Paul F. Forman Team Engineering Excellence Award for successful



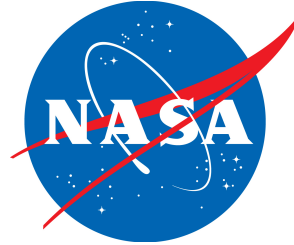
development and deployment of the state-of-the-art Chlorophyll Fluorescence Sensor for airborne imaging solar-induced fluorescence (SIF), a compact, rugged, and lightweight imaging spectrometer, optimized for cost-effective airborne retrieval of chlorophyll fluorescence emission signatures monitoring plant health in near-real-time at simultaneously high spectral and spatial resolutions.

Contact: Ross Nakatsuji, Marketing Communications Manager
Email: rnakatsuji@headwallphotonics.com

NASA

NASA leads the nation on a great journey of discovery, seeking new knowledge and understanding of our planet Earth, our Sun and solar system, and the universe out to its farthest reaches and back to its earliest moments of existence. The focal point of the NASA exhibit experience will be the nine-screen Hyperwall, where scientists will share science stories throughout the week.

Contact: Winnie Humberson, Science Exhibit Mgr., Science Mission Directorate, NASA HQ
Email: Winnie.humberson@nasa.gov



Alaska Satellite Facility

The Alaska Satellite Facility (ASF) operates the NASA archive of synthetic aperture radar (SAR) data from a variety of satellites and aircraft, providing these data and associated specialty support services to researchers in support of NASA's Earth Science Data and Information System (ESDIS) project. ASF downlinks, processes, archives, and distributes remote-sensing data to scientific users around the world. We promote, facilitate, and participate in the advancement of remote sensing to support national and international Earth science research, field operations, and commercial applications.

Contact: Rebecca Miller, Product Owner/Public Information Officer
Email: rmiller2@alaska.edu



IGARSS 2021

On behalf of the IEEE Geoscience and Remote Sensing Society and the IGARSS 2021 Organizing Committee, we are pleased to invite you to Brussels, Belgium, for the 41th annual IGARSS symposium, starting Sunday the 11th of July till Friday the 16th of July 2021.

Contact: Joost Vandenabeele, General Co-Chair
Email: info@igarss2021.com



Quartus Engineering Incorporated

Quartus Engineering specializes in system design & development, simulation & analysis, testing, prototyping and manufacturing of mechanical systems for a wide-range of industries and are experts in simulation-driven engineering. We are a complete engineering solution provider from concept,

prototype through low volume or complex production. We design for manufacturability and transition to high volumes with ease with Quartus as your guide. Quartus has a broad range of industry and product experience that includes: Civil/Space, Defense, Aircraft/Transportation, Consumer Products, Optics & Photonics and Medical/Life Science. Quartus is focused on game changing applications like remote sensing, metrology, thermal, LiDAR, use of novel materials and other innovative technologies and measurement approaches that span multiple industries and are faced with extreme environments and other complex engineering challenges.



Contact: Eileen Hooker, Marketing Coordinator
Email: eileen.hooker@quartus.com

Descartes Labs

Descartes Labs is the first company to offer a geospatial data refinery that combines a highly scalable processing and modeling platform with a multi-petabyte library of public and private data for building predictive models. We help customers create a competitive advantage by scaling geospatial data science innovation and decision automation.



Contact: Caitlin Kontgis, Director of Scientific Programs
Email: caitlin@descarteslabs.com

United Arab Emirates University

The National Space Science and Technology Center (NSSTC) was jointly established by UAE University, the UAE Space Agency and the Telecommunications Regulatory Authority's ICT Fund in 2016 at Al Ain City, UAE. The center has been established with the vision to become the leading center in the space sector in the UAE and to become a major contributor to the UAE's national strategic innovation agenda.



Contact: Sara Al Eissaee, Marketing and Outreach Executive
Email: sara.amer@uaeu.ac.ae

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About GRSS

Welcome to the IGARSS 2020 web site! The IEEE Geoscience And Remote Sensing Symposium is the most important meeting for the membership of the IEEE Geoscience and Remote Sensing Society (GRSS).

The Geoscience and Remote Sensing Society (GRSS) is a community of researchers and practitioners collaborating and designing tools to understand our interaction with Earth's ecosystems, to monitor its environments, oceans and ice caps, and to characterize potential risks. GRSS supports a network of collaborations at a global level: come and join us!

1. WHAT IS GRSS?

The Geoscience and Remote Sensing Society (GRSS) is a technical society of the Institute of Electrical and Electronics Engineers (IEEE). GRSS fosters engagement of its members for the benefit of society through science, engineering, applications, and education as related to the development of the field of geoscience and remote sensing.

2. GRSS & IEEE

GRSS is one of the 39 societies of IEEE, the largest academic and professional society with about 430,000 members in 160 countries. GRSS has more than 4200 members in 94 countries. It has currently 79 chapters all over the world (16 of them are student chapters), and 11 ambassadors.

3. GRSS MEMBERS

Members of GRSS come from a wide variety of scientific and engineering backgrounds. Members with engineering backgrounds often support scientific investigations with the design and development of hardware and data processing techniques, requiring them to be familiar with geosciences such as geophysics, geology, hydrology, meteorology, etc. Conversely, scientists find in GRSS a forum for the evaluation and dissemination of remote sensing related science. This fusion of geoscience and engineering disciplines gives GRSS an unique interdisciplinary character and an exciting role in advancing remote sensing science and technology.

During IGARSS, GRSS members and non-members share their latest results and novel developments in the area of geoscience and remote sensing. IGARSS is a big conference, and all the technical communities that form the GRSS community are gathering in different sessions, meetings and technical activities. I am sure each of you will find in this conference topics that are directly important to your own research. However, the diverse technical program of IGARSS is also a place to engage other communities, who operate within our own field of interest but with whom traditionally we do not connect. Diversity is an advantage, and cross-fertilization of different ideas and points of view has always brought to new ideas and

new research projects.

I look forward to welcoming you at IGARSS 2020 this coming July!

Paolo Gamba

2020 GRSS President

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2020 Geoscience and Remote Sensing Summer School

Information	
Dates	Tuesday, July 14 - Friday, July 17, 2020
Venue	University of Hawaii at Hilo 200 W. Kawili St Hilo, Hawaii 96720



Aloha and welcome! The 2020 GRSS Summer School (GR4S) will be held the week before IGARSS 2020 on the University of Hawaii at Hilo campus on the east side of Hawaii Island, approximately 60 minutes away from the IGARSS 2020 venue. The theme of the GR4S this year is Remote Sensing and Natural Disasters. It will be a four-day course of seminar lectures, hands-on lab activities, and tours of tsunami sites and recent volcanic eruption sites, including a trip to Hawaii Volcanoes National Park. Distinguished speakers will give lectures on SAR, thermal, and optical remote sensing, and emergency remote sensing for disasters via small unmanned aerial systems, followed by hands-on training.



[Go to 2020 GRSS Summer School Website](#)

Contact information

2020 Geoscience and Remote Sensing Summer School Committee
email: rperroy@hawaii.edu

2020 IEEE International Geoscience and Remote Sensing Symposium

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Daily Trivia Quiz

Trivia Quiz Rules

Who doesn't like a good trivia question? We can't be together in person to experience Hawaii or "Save the Date" for next year in Brussels, do a face-to-face meeting with this year's Sponsors or to learn a few things about GRSS history...but we can have some fun AND perhaps...win a prize? A gift card for \$250 USD, which can be redeemed for merchandise or used as a charitable donation to a number of worthy causes.

Rules

1. Each day there will be a trivia quiz.
2. Each day's questions will be based on a different theme related to IGARSS 2020 and will be released at 23:00 UTC.
3. Five questions per quiz, per day, and with each correct answer, you'll receive an entry to the prize drawing to take place during the closing ceremony Friday, October 2nd.
4. You may take each quiz more than once, however, your last set of answers will be the ones recorded.
5. You need to be a registered participant in IGARSS 2020 in order to participate in each quiz.
6. Each question is a multiple-choice or "true or false" format. Read each question carefully, and click on the button next to your response that you feel best answers the question.
7. The correct answers to each day's quiz will be provided the next day. For example, the Monday quiz answers will appear Tuesday, and so on.
8. Each registered participant has the potential to have 20 correct answers and a maximum of 20 entries in the prize drawing.
9. Click the "Take the Quiz" button to begin. When finished, click the "Submit Quiz" to enter your responses.

Take The Quiz

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Virtual TIE: Event Details

The TIE (technology, industry, and education) activities that are part of the annual IGARSS conference will be undergoing a format change this year. These activities will be presented as a series of free webinars distributed during the summer and autumn of 2020. We are in the process of finalizing the full slate of activities, but they will include educational seminars, code workshops, panels, and a virtual mixer! These activities are being brought to you by a number of GRSS groups including [Young Professionals](#), [IDEA](#), [Educational Activities](#), and the industry outreach team. Watch your inbox, the event details on this page, and the GRSS social media channels for updates as the details become available. We look forward to seeing you virtually this year! No conference registration needed!

 grss-ieee.org

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 [IEEE GRSS](https://www.youtube.com/IEEEGRSS)

HSUSO/GLOBE Teacher Training
17 July, 16:00 US/Eastern

Registration link: See you next year!

GLOBE is an international program that provides students and the public worldwide with the opportunity to participate in data collection and the scientific process, and contribute meaningfully to our understanding of the Earth system and global environment. The GLOBE Program is offering educators multiple two-hour trainings over 2 days to learn how to engage 6-12 grade students in field research using GLOBE protocols.

How to Publish in GRSS and Be Effective
7 August, 09:00 US/Eastern

Registration link: See you next year!

Find your time: [Time Zone Converter](#) or [Google calendar](#)

This webinar is meant to provide basic information for authors interested in publishing in GRSS journals to create a high impact paper. Topics to be covered are paper structure and format, reproducibility and replicability, as well as ethics. The webinar is intended for authors at all levels, but it is especially suited for Young Professionals and PhD students near the beginning of their careers. The instructors are Alejandro Frery, from Universidad Federal de Alagoas, Brazil, former Editor in Chief of the IEEE Geoscience and Remote Sensing Letters, and Paolo Gamba, GRSS President.

Deep Learning in Remote Sensing: Challenges, Solutions, and What

Makes Us Different
2 September, 12:00 US/EasternRegistration link: [Zoom meeting](#)Find your time: [Time Zone Converter](#) or [Google calendar](#)

Join us for a fireside chat focused on the use of deep learning in remote sensing, a domain quite different from the natural image domain that deep learning algorithms are often crafted for. We will dive into how remote sensing and computer scientists have navigated this field within the remote sensing domain, what challenges they've encountered along the way, and how they've dealt with or overcome them. We'll be joined by speakers Ilke Demir (Intel), Manuel Gonzalez-Rivero (Maxar), Dalton Lunga (Oak Ridge National Laboratory), Jake Shermeyer (In-Q-Tel), and Sherrie Wang (Stanford).

Speakers, in alphabetical order:

- Ilke Demir (Intel Corporation)
- Manuel Gonzalez-Rivero (Maxar)
- Dalton Lunga (Oak Ridge National Laboratory)
- Jake Shermeyer (In-Q-Tel)
- Sherrie Wang (Stanford)

Young Professionals Mixer
9 September, 12:00 US/EasternRegistration link: [Zoom meeting](#)Find your time: [Time Zone Converter](#) or [Google calendar](#)

The Young Professionals (YP) mixer is a chance for GRSS YPs to have an informal meet and greet and to network with accomplished professionals from industry and academia. For 2020, this event is going to be held in a unique remote format. We will have a fun trivia competition and will invite senior GRSS members to share stories about their careers and offer advice to the YPs.

Young Professionals Panel
16 September, 12:00 US/EasternRegistration link: [Zoom meeting](#)Find your time: [Time Zone Converter](#) or [Google calendar](#)

The inaugural IGARSS Young Professionals (YP) panel will host academic and industry professionals from around the world to discuss how to navigate the myriad career options and the associated challenges for Young Professionals in geoscience and remote sensing. We will also host a Q&A session at the end during which selected questions will be posed to the panelists.

Geospatial Start-up Workshop: Creating a Business That Thrives
24 September, 13:00 US/EasternRegistration link: [Zoom meeting](#)Find your time: [Time Zone Converter](#) or [Google calendar](#)

Starting a successful geospatial business takes more than just a good idea. This workshop will walk you through the basics of setting up the right legal structure, examining the many funding options, pitching your idea to investors, and marketing your product once the business is up and running. This panel brings together four business experts with decades of experience in the geospatial industry. You will leave this workshop

understanding what it takes to start – and run – a business that succeeds for the long term in the competitive global marketplace.

Three Minute Thesis 23 September, 10:00 US/Eastern

Registration link: [Zoom meeting](#)

Find your time: [Time Zone Converter](#) or [Google calendar](#)

3MT®, founded by the University of Queensland in 2008, is an academic competition that cultivates students' presentation and research communication skills and challenges them to describe their research within three minutes to a general audience with one static slide. This competition will be held as a part of IGARSS 2020 and is open to all students. Students will be able to submit videos to a video platform of their choice, and the 10 best presenters will be selected to present to a panel of judges remotely on September 23, 2020 at 10:00 AM (US/EST). Prizes will be awarded to the top 3 presenters.

3MT IGARSS 2020 Finalists

1. **Fatih Yıldız**
"Monitoring and Exploring Natural Hazard Risk in Teos Ancient City Using Remote Sensing and GIS"
Dokuz Eylul University, Turkey
2. **Yan Yu**
"Remote Sensing and Open Social Data Integration for Urban Applications"
Sun Yat-sen University, China
3. **T. Warren de Wit**
"Human Intent-Guided Autonomous Systems"
University of Alabama Huntsville, United States
4. **Yinyi Lin**
"Multisource Strategy for Shadow Free Impervious Surface Mapping"
The Chinese University of Hong Kong
5. **Bungo Konishi**
"Complex-valued Reservoir Computing for SAR Data Analysis"
Tokyo University, Japan
6. **Nur Fatin Irdina Zulhamidi**
"Identification of Faults Using Remote Sensing and Gravity"
Universiti Sains Malaysia
7. **Jakob Gawlikowski**
"Robust Machine Learning Based Data Fusion Methods"
TU Munich, Germany
8. **Min Zhao**
"Nonlinear Hyperspectral Data Unmixing via Deep Autoencoder Networks"
Northwestern Polytechnical University, China
9. **Isa Muhammad Zumo**
"Evaluating Grazing Land Livestock Carrying Capacity from Satellite Data"
Universiti Teknologi Malaysia
10. **Endrit Shehaj**
"A Journey of Satellite Signals through the Atmosphere"
ETH Zurich, Switzerland

Better Tools for Reproducible Science Date/Time TBD

Registration link: [Coming Soon...](#)

During this session, attendees will work on example notebooks and exercises which analyze geospatial data in a web-hosted Project Jupyter notebook. Users will not have to

install any package or download any data. Attendees will gain experience with popular python libraries for analysis such as numpy, xarray, pandas and geopandas. Attendees will learn about how to use Jupyter notebooks and widgets to create interactive plots and visualizations that make sharing research engaging and collaborative. Attendees will learn to discover and use data remotely so that no data download is required and the process of generating results is fully repeatable for anyone with an internet connection.

Communicating Science Effectively Date/Time TBD

Registration link: [Coming Soon...](#)

This workshop will help attendees develop strong scientific communication skills across written and spoken domains. The workshop will go through the key “musts” for effective communication and tool kits for upgrading and strengthening their scientific communication. These communication strategies will cover written and visual communication in both physical and electronic media.

IDEA/WISE-E Inspire & Empower Panel 25 September, 12:00 US/Eastern

Registration link: [Zoom meeting](#)

Find your time: [Time Zone Converter](#) or [Google calendar](#)

As part of the IGARSS 2020 Virtual TIE Events, we are pleased to invite you to this session co-organized by the GRSS IDEA (Inspire, Develop, Empower, and Advance) committee and WISE-E (Women in Science, Engineering, and the Environment). We will be taking a world tour of cutting-edge remote sensing and geoscience research featuring the successful women scientists behind the work. You'll discover where and how they work, hear about their experiences in and passion in science and engineering, and learn from their journeys. The live event will feature a moderated Q&A panel.

IDEA Diversity & Inclusion Fireside Chat 21 October, 12:00 US/Eastern

Registration link: [Zoom meeting](#)

Find your time: [Time Zone Converter](#) or [Google calendar](#)

As part of the IGARSS 2020 Virtual TIE Events, we are pleased to invite you to this session organized by the GRSS IDEA (Inspire, Develop, Empower, and Advance) committee. In lieu of our annual WinGRSS luncheon, we will be hosting this informal gathering to 1) provide an update on IDEA committee activities throughout the year and 2) to hold a “fireside chat” focused on building our committee’s initiatives to develop and advance diversity and inclusion within our society. This fireside chat will serve as an opportunity to discuss different types of existing diversity and inclusion programs, with an emphasis on how success for such programs is defined and measured.

CV/Resume Workshop "Students, Internships and Industry" Date/Time TBD

Registration link: [Coming Soon...](#)

Are you currently a student, academic or researcher interested in a career in industry? Are you unsure about how to convert your CV into a resume, or best practices for the job search? Join our webinar, "Students, Internships and Industry" to learn how to find and land a new position in remote sensing.

OGC API overview and Implementation Webinar Date/Time TBD

Registration link: Coming Soon...

Join OGC for an overview of the new OGC APIs designed for application developers to facilitate the sharing and using of location information across a wide variety of domains involving geospatial data. Learn how the APIs enable multiple location technologies to function seamlessly to reduce development time, accelerate integration of heterogeneous resources and improve cross-system or resource interoperability. Topics include:

- OGC APIs: Why? (covers issues with open information sharing that have led to the OGC APIs)
- OGC APIs: What? (covers the landscape of APIs)
- OGC APIs: How? (covers how contributors across the globe are working to enable them -- OGC sprints)
- OGC APIs: Examples

SpaceNet: Building an Open Source Analytics Ecosystem for Geospatial Applications Date/Time TBD

Registration link: Coming Soon...

There has been exponential growth in computer vision research focused on deep learning techniques. The significant advances in image classification, object detection, and image segmentation have profound implications for a wide variety of geospatial applications, including foundational mapping. SpaceNet LLC, a nonprofit organization dedicated to accelerating open source, applied computer vision research, have striven to direct more research and development towards remote sensing applications. Since its informal launch in 2016, SpaceNet has labeled and open sourced over 26,000 km² of satellite imagery and synthetic aperture radar (SAR) data, structured and hosted six public data science challenges, and open sourced 28 deep learning algorithms from the challenges. It is planning to launch its seventh public challenge in August featuring a deep time series dataset. In this talk, members from SpaceNet will provide an overview of their previous work, a deep dive into some of the key findings from recent challenges, and discussion about emerging trends in the computer vision and geospatial domains.

SpaceNet is co-founded and managed by In-Q-Tel's CosmiQ in coordination with its co-founder Maxar Technologies and the other SpaceNet Partners: Amazon Web Services (AWS), Capella Space, TopCoder, the Institute of Electrical and Electronics Engineers (IEEE) Geoscience and Remote Sensing Society (GRSS), the National Geospatial-Intelligence Agency (NGA), and Planet. All of the datasets, code, papers, and evaluations are available at www.spacenet.ai.

Platform Workshop [TBD Event Details] Date/Time TBD

Registration link: Coming Soon...

The industry workshop is an opportunity for the GRSS community to learn about geospatial software capabilities that are available to remote sensing professionals. These presentations by industry leaning professionals Register for the conference or follow GRSS to learn more about the this year's lineup is finalized.

2020 IEEE International Geoscience and Remote Sensing Symposium

September 26 - October 2, 2020 • Virtual Symposium

Student Paper Competition

Important Guidelines for SPC Presenters



Important Guidelines for SPC presenters they are different from the new agile format adopted in IGARSS 2020

1. SPC Session Format:
 - Each student has 20 minutes allocated.
 - Use 15-16 minutes to present your slides.
 - Leave 4-5 minutes for questions from the IEEE GRSS Symposium Award Committee.
 - Audience is not allowed to ask questions in the SPC sessions.
2. The first author (i.e., the finalist student) is required to register and participate to the symposium, personally present the paper.
3. Once the technical program is available on <https://igarss2020.org/>, you will see the scheduled slot for your presentation.

Competition Details

All IEEE student members are invited and encouraged to enter the IGARSS 2020 Student Paper Competition. Ten finalists will be selected by a committee to present their papers during a special session at the symposium in Hawaii.

To enter, you must submit the following documents online at the paper submission page by 15 January 2020.

Publish-ready 2-column, 4-page Proceedings Paper		This document will be judged for the SPC.
Proof of Student Status (scanned image)		Image of your student ID or a letter from your University or school stating that you are a student currently enrolled in a degree program.

Advisor Letter



A signed letter from your advisor stating that you:

- are a candidate for a degree and IEEE student member,
- will personally present the paper if accepted,
- has a higher contribution to the presented paper than 60% (if the contribution is less than 60%, the paper is not suitable for a student paper competition and can be submitted to the normal track),
- will register and participate in the symposium, and
- will attend the Awards Banquet;

ALL THREE DOCUMENTS MUST BE READY AT THE TIME OF SUBMISSION!

Competition guidelines:

1. The first/principal author must be a student.
2. The student must be an IEEE member.
3. Each student can only submit one paper for consideration in the contest.
4. The student must be in a degree program at the time of submission of IGARSS 2020 paper.
5. The student must attend IGARSS 2020 and present the paper.
6. The student will publish the paper in the IGARSS 2020 Proceedings.
7. All required documents must be uploaded through the online system by **15 January 2020**.

2020 IEEE International Geoscience and Remote Sensing Symposium

September 26 - October 2, 2020 • Virtual Symposium

Tutorials

Tutorials will be offered via Zoom at the times indicated below. Attendees must be available at the indicated time; tutorials will not be available for on-demand viewing afterwards.

Tutorial Schedule		
Full-Day Tutorials	Part I	Saturday, 26 September, 05:00 - 09:00 PDT (Los Angeles, Pacific Time) Saturday, 26 September, 14:00 - 18:00 CEST (Central Europe Summer Time) Saturday, 26 September, 20:00 - 00:00 CST (China Standard Time)
	Part II	Sunday, 27 September, 05:00 - 09:00 PDT (Los Angeles, Pacific Time) Sunday, 27 September, 14:00 - 18:00 CEST (Central Europe Summer Time) Sunday, 27 September, 20:00 - 00:00 CST (China Standard Time)
Half-Day Tutorials		Sunday, 27 September, 05:00 - 09:00 PDT (Los Angeles, Pacific Time) Sunday, 27 September, 14:00 - 18:00 CEST (Central Europe Summer Time) Sunday, 27 September, 20:00 - 00:00 CST (China Standard Time)

Tutorials

[FD-1: Earth Observation Big Data Intelligence: Theory and Practice of Deep Learning and Big Data Mining](#)

[FD-2: Machine Learning in Remote Sensing - Theory and Applications for Earth Observation](#)

[FD-3: Mathematical Morphology in Interpolations and Extrapolations](#)

[FD-4: Natural disasters and hazards monitoring using Earth Observation data](#)

[FD-5: Open Source Imaging Spectroscopy: Visualization, Analysis, and Atmospheric Correction](#)

[FD-6: Scalable Machine Learning with High Performance and Cloud Computing](#)

[FD-7: TOPS Sentinel-1 SAR Interferometry for ground motion detection and monitoring](#)

[HD-1: 3D/4D Radar Tomography: concepts, practice and applications](#)

[HD-2: Analysis-Ready Spatio-Temporal Big Data Cubes: Standards, Tools, Services](#)

[HD-3: Crop physiological assessments using high resolution RGB images.](#)

[HD-4: Predictive Modeling of Hyperspectral Responses of Natural Materials: Challenges and Applications](#)

[HD-5: Remote Sensing with Reflected Global Navigation Satellite System and Signals of Opportunity](#)

FD-1: Earth Observation Big Data Intelligence: Theory and Practice of Deep Learning and Big Data Mining

Presented by Mihai Datcu, Feng Xu, Akira Hirose

Available to Purchase

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sat, 26 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Part II

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sun, 27 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

In the big data era of earth observation, deep learning and other data mining technologies become critical to successful end applications. Over the past several years, there has been exponentially increasing interests related to deep learning techniques applied to remote sensing including not only hyperspectral imagery but also synthetic aperture radar (SAR) imagery. This tutorial has the following three parts. The first part introduces the basic principles of machine learning, and the evolution to deep learning paradigms. It presents the methods of stochastic variational and Bayesian inference, focusing on the methods and algorithms of deep learning generative adversarial networks. Since the data sets are organic part of the learning process, the EO dataset biases pose new challenges. The tutorial answers to open questions on relative data bias, cross-dataset generalization, for very specific EO cases as multispectral, SAR observation with a large variability of imaging parameters and semantic content. The second part introduces the theory of deep neural networks and the practices of deep learning-based remote sensing applications. It introduces the major types of deep neural networks, the backpropagation algorithms, programming toolboxes, and several examples of deep learning-based remote sensing imagery processing. The last part focuses upon data treatment of and applications to phase and polarization in SAR data. Since SAR is a coherent observation, its data properties are quite special and useful for our social activities to provide us with specific feature extraction and discovery. This part deals with deep learning in complex-amplitude and polarization domains as well as s-called data structurization of such multimodal processing.

FD-2: Machine Learning in Remote Sensing - Theory and Applications for Earth Observation

Presented by Ronny Hänsch, Yuliya Tarabalka, Naoto Yokoya, Andreas Ley

Available to Purchase

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sat, 26 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Part I

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

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Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Despite the wide and often successful application of machine learning techniques to analyse and interpret remotely sensed data, the complexity, special requirements, as well as selective applicability of these methods often hinders to use them to their full potential. The gap between sensor- and application-specific expertise on the one hand, and a deep insight and understanding of existing machine learning methods on the other hand often leads to suboptimal results, unnecessary or even harmful optimizations, and biased evaluations. The aim of this tutorial is threefold: First, to provide insights and a deep understanding of the algorithmic principles behind state-of-the-art machine learning approaches including Random Forests and Convolutional Networks, feature learning, incremental learning for large-scale/big data remote sensing classification. Second, to illustrate the benefits and limitations of machine learning with practical examples, including providing recommendations about proper preprocessing and initialization (e.g. data normalization), state available sources of data and benchmarks, as well as how to properly generate and sample training data. Third, to inspire new ideas by discussing unusual applications from remote sensing and other domains.

FD-3: Mathematical Morphology in Interpolations and Extrapolations

Presented by B. S. Daya Sagar

[Available to Purchase](#)

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sat, 26 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Part II

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sun, 27 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Data available at multiple spatial / spectral / temporal scales pose numerous challenges to the data scientists. Of late researchers paid wide attention to handle such data acquired through various sensing mechanisms to address intertwined topics—like pattern retrieval, pattern analysis, quantitative reasoning, and simulation and modelling—for better understanding spatiotemporal behaviours of several terrestrial phenomena and processes. Various original algorithms and techniques that are mainly based on mathematical morphology (Matheron 1975, Serra 1982, Soille 2010, Sagar 2010, 2013, 2018) have been developed and demonstrated. This course that presents fundamentals of mathematical morphology and their involvement in interpolations and extrapolations with applications in geosciences and geoinformatics would be useful for those with research interests in image processing and analysis, remote sensing and geosciences, geographical information sciences, spatial statistics and mathematical morphology, mapping of earth-like planetary surfaces, etc. This course will be offered in two parts. In the morning shift all the fundamental morphological transformations would be covered. The applications of those transformations, covered in the first shift, to understand the morphological interpolations and extrapolations would be covered with several case studies in the second shift. Morning Session: Introduction to Mathematical Morphology: (i)

Binary Mathematical Morphology, (ii) Grayscale Mathematical Morphology, (iii) Geodesic and Graph Morphology Afternoon Session: Mathematical Morphology in Spatial Interpolations and Extrapolations: (i) Conversion of point-data into polygonal map via SKIZ and WSKIZ, (ii) Visualisation of spatiotemporal behaviour of discrete maps via generation of recursive median elements, (iii) Morphing of grayscale DEMs via morphological interpolations, and (iv) Ranks for pairs of spatial fields via metric based on grayscale morphological distances Bibliography 1. Georges Matheron, 1975, Random Sets and Integral Geometry (New York: John Wiley & Sons). 2. Jean Serra, Image Analysis and Mathematical Morphology, 1982, Academic Press: London, p. 610. 3. B. S. Daya Sagar and Jean Serra, 2010, Preface: Spatial Information Retrieval, Analysis, Reasoning and Modelling, International Journal of Remote Sensing, v. 31, no. 22, p. 5747-5750. 4. Pierre Soille, 2010, Morphological Image Analysis: Principles and Applications, Springer, p. 408. 5. B. S. Daya Sagar, 2013, Mathematical Morphology in Geomorphology and GISci, CRC Press: Boca Raton, p. 546. 6. B. S. Daya Sagar, 2018, Mathematical Morphology in Geosciences and GISci: An Illustrative Review. In: Daya Sagar B., Cheng Q., Agterberg F. (eds) Handbook of Mathematical Geosciences. Springer, Cham DOI: https://doi.org/10.1007/978-3-319-78999-6_35.

FD-4: Natural disasters and hazards monitoring using Earth Observation data

Presented by Ramona Pelich, Marco Chini, Wataru Takeuchi, Young-Joo Kwak and Vitaliy Yurchenko

[Available to Purchase](#)

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sat, 26 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Part II

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sun, 27 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

In recent years, natural disasters, i.e., hydro-geo-meteorological hazards and risks, have been frequently experienced by many countries across the globe. 2019 has been another year with numerous devastating disasters hitting several regions. For example, in the Bahamas, Hurricane Dorian caused massive flooding with significant damages, while Japan has been affected by cascading and interacting hazards such as catastrophic mudslides and devastating floods caused by Typhoon Hagibis. As well in 2019, north-east India was suffering badly from monsoon-related flooding and landslides as Ganga and Bagmati Rivers swell up due to heavy rainfall. This tutorial is comprised of basic theoretical and experimental information essential for an emergency hazard and risk mapping process focused on advanced satellite Earth Observation (EO) data including both SAR and Optical data. Firstly, this tutorial gives a better understanding of disaster risk in the early stage by means of EO data available immediately after a disaster occurs. Then, after several comprehensive lectures focused on floods and landslides, a hands-on session will give the opportunity to all participants to learn more about the practical EO tools available for rapid-response information. This full day tutorial will demonstrate the implementation of disaster risk reduction and sustainable monitoring for effective emergency response and management between decision and action activities.

FD-5: Open Source Imaging Spectroscopy: Visualization, Analysis, and Atmospheric Correction

Presented by David Ray Thompson

[Available to Purchase](#)

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

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Part II

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

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Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Imaging spectroscopy, also known as Hyperspectral Imaging, is revolutionizing remote sensing. Spectroscopy enables quantitative mapping of materials and chemistry across wide areas. Future orbital missions by NASA and other agencies will provide these data on global scales. This is a sequence of hands-on lab experiences using open source code for imaging spectrometer data analysis. The full day is divided into a morning session for beginners, and an afternoon session dealing with cutting-edge topics for more advanced researchers. The morning session will introduce basic concepts behind these instruments and provide practical experience in visualization and analysis. The tutorials will use the open-source ISOFIT codebase (<https://github.com/isofit/isofit>) for atmospheric correction, and OpenSPEC for visualization capability similar to that provided in the ENVI interface. The afternoon session will focus on Bayesian methods including atmosphere/surface property estimation with rigorous uncertainty propagation. Topics include: Optimal Estimation (OE) atmospheric correction methods, principled design of model priors and constraints, and formal error analysis. Both sessions are open to all attendees, who can attend any combination in any order as desired. Tutorial materials are also available as open source resources for participants to use in their own courses.

FD-6: Scalable Machine Learning with High Performance and Cloud Computing

Presented by Gabriele Cavallaro, Shahbaz Memon and Rocco Sedona

[Available to Purchase](#)

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

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Modern Earth Observation (EO) programs have an open data policy and provide massive volume of free multi-sensor data every day. NASA's Landsat (i.e., the longest running EO program) and ESA's Copernicus provide data with high spectral-spatial coverage at high

revisiting time, which enables global monitoring of the Earth in a near real-time manner. Copernicus, with its fleet of Sentinel satellites, is now the World's largest single EO. These programs are showing that the vast amount of raw data available calls for re-definition of the challenges within the entire Remote Sensing (RS) life cycle (i.e., data acquisition, processing, and application phases). It is not by coincidence that RS data are now described under the big data terminology, with characteristics such as volume (increasing scale of acquired/archived data), velocity (rapidly growing data generation rate and real-time processing needs), variety (data acquired from multiple satellites' sensors that have different spectral, spatial, temporal, and radiometric resolutions), veracity (data uncertainty/ accuracy), and value (extracted information). The large-scale, high-frequency monitoring of the Earth requires robust and scalable Machine Learning (ML) and Deep Learning (DL) models trained over annotated (i.e., not raw) time series of multisensor images at global level (e.g., acquired by Landsat 8 and Sentinel-2). Deep Learning (DL) has already brought crucial achievements in solving RS image classification problems. The state-of-the-art results have been achieved by deep networks with backbones based on convolutional transformations (e.g., Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Generative Adversarial Networks (GANs)). Their hierarchical architecture composed of stacked repetitive operations enables the extraction of useful image features from raw pixel data and modelling high-level semantic content of RS images. On the one hand, DL can lead to more accurate classification results of land cover classes when networks are trained over large RS annotated datasets. On the other hand, deep networks pose challenges in terms of training time. In fact, the use of a large datasets for training a DL model requires the availability of non-negligible time resources. In this scenario, approaches relying on local workstation machines (i.e., using MATLAB, R, SAS, SNAP, ENVI, etc.), can provide only limited capabilities. Despite modern commodity computers and laptops becoming more powerful in terms of multi-core configurations and GPU, the limitations in regard to computational power and memory are always an issue when it comes to fast training of large high accuracy models from correspondingly large amounts of data. Therefore, the use of highly scalable and parallel distributed architectures (such as clusters or clouds) is a necessary solution to train DL classifiers in a reasonable amount of time, which can then also provide users with high accuracy performance in the recognition tasks. The tutorial aims at providing a complete overview for an audience that is not familiar with these topics. The tutorial will follow a two-fold approach: from selected background lectures (morning session) needed to practical hands-on exercises (afternoon session) in order to perform own research after the tutorial. The tutorial will discuss the fundamentals of what a supercomputer and a cloud consists of, and how we can take advantage of such systems to solve remote sensing problems that require fast and highly scalable solutions such as realistic real time scenarios.

FD-7: TOPS Sentinel-1 SAR Interferometry for ground motion detection and monitoring

Presented by Dinh Ho Tong Minh

[Available to Purchase](#)

Part I

Sat, 26 Sep, 12:00 - 16:00 (UTC)

Sat, 26 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sat, 26 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sat, 26 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Part II

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Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

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Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

This tutorial explains how to use SAR Interferometry (InSAR) techniques on real-world

TOPS Sentinel-1 images, with user-oriented (no coding skills required!) open source software. After a quick summary of SAR and InSAR theory, the tutorial presents how to apply Sentinel-1 SAR data and processing technology to identify and monitor ground deformation.

HD-1: 3D/4D Radar Tomography: concepts, practice and applications

Presented by Fabrizio Lombardini

[Available to Purchase](#)

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sun, 27 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

Thanks to the capability of providing direct physical measurements, synthetic aperture radar (SAR) Interferometry allowing generation of digital elevation models and monitoring displacements to a mm/year order, is one of the techniques that have most pushed the applications of SAR to a wide range of scientific, institutional and commercial areas, and it has provided significant returns to the society in terms of improvements in risk monitoring. SAR images relative to a same scene and suitable for interferometric processing are today available for most of the Earth, and their number is exponentially growing. Archives associated to SAR spaceborne sensors are filled by data collected with time and observation angle diversity (multipass-multibaseline data); moreover, current system trends in the SAR field involve clusters of cooperative formation-flying satellites with capability of multiple simultaneous acquisitions (tandem or multistatic SAR systems), airborne systems with multibaseline acquisition capability in a single pass are also available, and unmanned air vehicles with capability of differential monitoring of rapid phenomena are being experimented. In parallel, processing techniques have been developed, evolutions of the powerful SAR Interferometry, aimed at fully exploiting the information lying in such huge amount of multipass-multibaseline data, to produce new and/or more accurate measuring and information extraction functionalities. Focus of this tutorial is on processing methods that, by coherently combining multiple SAR images at the complex (phase and amplitude) data level, differently from phase-only Interferometry, allow improved or extended imaging and differential monitoring capabilities, in terms of accuracy and unambiguous interpretation of the measurements. The tutorial, along the lines of previous issues but in a renewed format, will cover in particular interrelated techniques that have shaped in the recent years an emerged branch of SAR interferometric remote sensing, Tomographic SAR Imaging and Information Extraction; this is playing an important role in the development of next generation of SAR products and will enhance the application spectrum of SAR systems in Earth observation, in particular for the analysis and monitoring of complex scenarios such as urban/critical infrastructure and forest or more generally volumetric scenes, e.g. ice layers and snowpacks. After briefly recalling the basic concept of SAR Interferometry, multibaseline/multipass Tomographic SAR techniques will be framed, presented, and discussed with respect to the specific applications. These techniques are 1) Multibaseline 3D Tomography, furnishing the functionality of layover scatterers elevation separation, to locate different scatterers interfering in the same pixel in complex surface geometries of man-made structures, causing signal garbling in high frequency SARs, and the functionality of full 3D imaging of volumetric scatterers, to provide a profiling of the scattering distribution also along the elevation direction for unambiguous extraction of physical and geometrical parameters in geophysical structures with vertical stratification, sensed by low frequency SARs; 2) Multipass 4D (3D+Time) and higher order Differential Tomography of multiple layover scatterers with slow deformation motions, a more recent and very promising Multidimensional Imaging mode, crossing the bridge between Differential Interferometry and Multibaseline Tomography. Basic concepts, signal models and most diffused processing techniques for 3D/4D Tomographic SAR Imaging will be described in the array beamforming processing i.e. spatial spectral estimation framework,

Fourier based, and of super-resolution kind (adaptive, and model-based). Live demonstration of these Tomographic algorithms and of their behavior will be carried out using simple simulation Matlab codes. A number of experimental results obtained with real data, multibaseline single-pass and multipass airborne, and multipass spaceborne, in X-, C-, L-, and P-band (in particular AER-II, E-SAR, ERS-1/2, COSMO-SkyMed, TerraSAR-X), over infrastructure, urban, forest, and ice areas, will be presented to show current achievements in real cases and the important application potentials of these emerged techniques. Recent new trends in the area will be finally mentioned, including hints to compressive sensing Tomography, and to concepts of higher-order ("5D") Tomography robust to temporal decorrelation and Differential Tomography of non-uniform deformation motions.

HD-2: Analysis-Ready Spatio-Temporal Big Data Cubes: Standards, Tools, Services

Presented by Peter Baumann

[Available to Purchase](#)

Sun, 27 Sep, 12:00 - 16:00 (UTC)

Sun, 27 Sep, 20:00 - 00:00 China Standard Time (UTC +8)

Sun, 27 Sep, 14:00 - 18:00 Central Europe Summer Time (UTC +2)

Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

DataCubes are emerging as an enabling paradigm for offering massive spatio-temporal Earth data in an analysis-ready way by combining individual files into single, homogenized objects, thereby easing access, extraction, analysis, and fusion. Essentially, dataCubes unify spatio-temporal sensor, image (timeseries, simulation, and statistics data under a common modelling and servicing paradigm, independent from the variety of raster encodings utilized. In OGC and ISO standardization, coverages provide the unifying concept for spatio-temporal dataCubes, with the streamlined service model of Web Coverage Service (WCS) including Web Coverage Processing Service (WCPS), OGC's geo dataCube analytics language. A large, continuously growing number of open-source and proprietary tools support the coverage standards. In this tutorial we present the concept of dataCubes, relevant standards, as well as interoperability successes and issues existing. We inspect various implementations and discuss their individual benefits. Based on the OGC reference implementation, rasdaman, live demos accessing existing services and real-life examples which participants can recap and modify on their Internet-connected laptop will play a key role.

HD-3: Crop physiological assessments using high resolution RGB images.

Presented by Shawn C. Kefauver

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Sun, 27 Sep, 12:00 - 16:00 (UTC)

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Sun, 27 Sep, 05:00 - 09:00 Pacific Daylight Time (UTC -7)

In this tutorial we will review in a short presentation the state-of-the-art on the use of commercially available consumer color digital cameras, which capture Red, Green and Blue light covering the visible spectrum with broad spectral bands but at high spatial resolution and with accurate color calibration. We will review various RGB vegetation indexes that use the spectral concept for the estimation of biomass and canopy chlorophyll, the Normalized Green Red Difference Index and the Triangular Greenness Index, as well as others that are in popular use based on this same concept. We will also introduce a number of spectral indexes based on alternate color space transforms such as

Hue Saturation Intensity (HSI), CIE-Lab and CIE-Luv and their practical calculations. Following this short presentation, we will look at the practical aspects of the calculation of these RGB vegetation indexes using the free software FIJI (FIJI is Just ImageJ) using both the interactive GUI (graphical user interface) of the software and also in code format. Finally, several different software plugin packages including the calculation of several of these RGB vegetation indexes, whether captured using a standard digital camera and processed locally using either the MaizeScanner (<https://integrativecropecophysiology.com/software-development/maizescanner/>) or the CerealScanner (<https://integrativecropecophysiology.com/software-development/cerealscanner/>) FIJI plugins developed by the University of Barcelona, or even captured by mobile phone and processed remotely by server application.

HD-4: Predictive Modeling of Hyperspectral Responses of Natural Materials: Challenges and Applications

Presented by Gladimir V. G. Baranoski

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Sun, 27 Sep, 12:00 - 16:00 (UTC)

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Predictive computer models, in conjunction with in situ experiments, are regularly being used by remote sensing researchers to simulate and understand the hyperspectral responses of natural materials (e.g., plants and soils), notably with respect to varying environmental stimuli (e.g., changes in light exposure and water stress). The main purpose of this tutorial is to discuss theoretical and practical issues involved in the development of predictive models of light interactions with these materials, and point out key aspects that need to be addressed to enhance their efficacy. Furthermore, since similar models are used in other scientific domains, such as biophotonics, tissue optics, imaging science and computer graphics, just to name a few, this tutorial also aims to foster the cross-fertilization with related efforts in these fields by identifying common needs and complementary resources. The presentation of this tutorial will be organized into five main sections, which are described as follows. Section 1. This section provides the required background and terminology to be employed throughout the tutorial. It starts with an overview of the main processes involved in the interactions of light with matter. A concise review of relevant optics formulations and radiometry quantities is also provided. We also examine the key concepts of fidelity and predictability, and highlight the requirements and the benefits resulting from their incorporation in applied life sciences investigations. Section 2. It has been long recognized that a carefully designed model is of little use without reliable data. More specifically, the effective use of a model requires material characterization data (e.g., size and water content) to be used as input, supporting data (e.g., absorption spectra of material constituents) to be used during the light transport simulations, and measured radiometric data (e.g., hyperspectral reflectance, transmittance and BSSDF (Bidirectional Surface Scattering Distribution Function)) to be used in the evaluation of modeled results. Besides their relative scarcity, most of measured radiometric datasets available in the literature often provide only a scant description of the material samples employed during the measurements, which makes the use of these datasets as references in comparisons with modeled data problematic. When it comes to a material's constituents in their pure form, such as pigments, data scarcity is aggravated by other practical issues. For example, oftentimes their absorption spectra is estimated either through inversion procedures, which may be biased by the inaccuracies of the inverted model, or does not take into account in vivo and in vitro discrepancies. In this section, we address these issues and highlight recent efforts to mitigate them. Section 3. For the sake of completeness and correctness, one would like to take into account all of the structural and optical characteristics of a target material during the model design stage. However, even if one is able to fully represent a

material in a molecular level, as we outlined above, data may not be available to support such a detailed representation. Hence, researchers need to find an appropriate level of abstraction for the material at hand in order to balance data availability, correctness issues and application requirements. Moreover, no particular modeling design approach is superior in all cases, and regardless of the selected level of abstraction, simplifying assumptions and generalizations are usually employed in the current models due to practical constraints and the inherent complexity of natural materials. In this section, we address these issues and their impact on the efficacy of existing simulation algorithms. Section 4. In order to claim that a model is predictive, one has to provide evidence of its fidelity, i.e., the degree to which it can reproduce the state and behaviour of a real world material in a measurable manner. This makes the evaluation stage essential to determine the predictive capabilities of a given model. In this section, we discuss different evaluation approaches, with a particular emphasis to quantitative and qualitative comparisons of model predictions with actual measured data and/or experimental observations. Although this approach is bound by data availability, it mitigates the presence of biases in the evaluation process and facilitates the identification of model parameters and algorithms that are amenable to modification and correction. In this section, we also discuss the recurrent trade-off involving the pursuit of fidelity and its impact on the performance of simulation algorithms, along with strategies employed to maximize the fidelity/cost ratio of computer intensive models. Section 5. The development of predictive light interaction models offers several opportunities for synergistic collaborations between remote sensing and other scientific domains. For instance, predictive models can provide a robust computational platform for the “in silico” investigation of phenomena that cannot be studied through traditional “wet” experimental procedures. Eventually, these investigations can also lead to the model enhancements. In this final section, we employ case studies to examine this iterative process, which can itself contribute to accelerate the hypothesis generation and validation cycles of research in different fields. We also stress the importance of reproducibility, the cornerstone of scientific advances, and address technical and political barriers that one may need to overcome in order to establish fruitful interdisciplinary collaborations.

HD-5: Remote Sensing with Reflected Global Navigation Satellite System and Signals of Opportunity

Presented by James Garrison, Adriano Camps and Estel Cardellach

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Sun, 27 Sep, 12:00 - 16:00 (UTC)

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Although originally designed for navigation, signals from the Global Navigation Satellite System (GNSS), i.e., GPS, GLONASS, Galileo and COMPASS, exhibit strong reflections from the Earth and ocean surface. Effects of rough surface scattering modify the properties of reflected signals. Several methods have been developed for inverting these effects to retrieve geophysical data such as ocean surface roughness (winds) and soil moisture. Extensive sets of airborne GNSS-R measurements have been collected over the past 20 years. Flight campaigns have included penetration of hurricanes with winds up to 60 m/s and flights over agricultural fields with calibrated soil moisture measurements. Fixed, tower-based GNSS-R experiments have been conducted to make measurements of sea state, sea level, soil moisture, ice and snow as well as inter-comparisons with microwave radiometry. GNSS reflectometry (GNSS-R) methods enable the use of small, low power, passive instruments. The power and mass of GNSS-R instruments can be made low enough to enable deployment on small satellites, balloons and UAV's. Early research sets of satellite-based GNSS-R data were first collected by the UK-DMC satellite (2003), Tech Demo Sat-1 (2014) and the 8-satellite CYGNSS constellation (2016). Future mission

proposals, such as GEROS-ISS (GNSS ReEfectometry, Radio-Occultation and Scatterometry on the International Space Station) and GNSS Transpolar Earth Reflectometry exploriNg System (G-TERN) will demonstrate new GNSS-R measurements of sea surface altimetry and sea ice cover, respectively. Availability of spaceborne GNSS-R data and the development of new applications from these measurements, is expected to increase significantly following launch of these new satellite missions and other smaller ones to be launched in the coming three years (ESA's PRETTY and FFSCAT; China's FY-3E; Taiwan's FS-7R). Recently, methods of GNSS-R have been applied to satellite transmissions in other frequencies, ranging from P-band (230 MHz) to K-band (18.5 GHz). So-called "Signals of Opportunity" (SoOp) methods enable microwave remote sensing outside of protected bands, using frequencies allocated to satellite communications. Measurements of sea surface height, wind speed, snow water equivalent, and soil moisture have been demonstrated with SoOp. This all-day tutorial will summarize the current state of the art in physical modeling, signal processing and application of GNSS-R and SoOp measurements from fixed, airborne and satellite-based platforms. An outline of the tutorial follows: • Introduction to the GNSS signal structure: Correlation properties of PRN codes; BPSK and BOC modulation; • Models for the reflected GNSS (GNSS-R) signal: Models for rough surface scattering, their limitations, and current attempts to improve upon them. Geometry of the bistatic radar problem. Second-order moments of the reflected signal waveform as a stochastic process. • Geophysical model functions: Ocean height spectrum models and the generation of filtered mean square slope. Models for the slope statistics (e.g. Cox and Munk) and reduction of these models to account for the L-band wavelength of GNSS-R signals. Surface reflection coefficients on land and water, and the relationship to soil moisture and ocean salinity. • Retrieval of geophysical data through inversion of scattering models. Direct inversion of scattering models, to estimate surface roughness from delay-Doppler waveform measurements. Non-linear least squares approaches and their sensitivity. Recent results on full-PDF retrievals. Faster computational methods, including series approximations, waveform peak tracking, and matched filters. Multi-look methods and their limitations. • Power calibration of the reflected signal. • Considerations for Signals of Opportunity: similarities and differences with GNSS-R and early results demonstration geophysical retrievals. • Design of GNSS-R satellite missions

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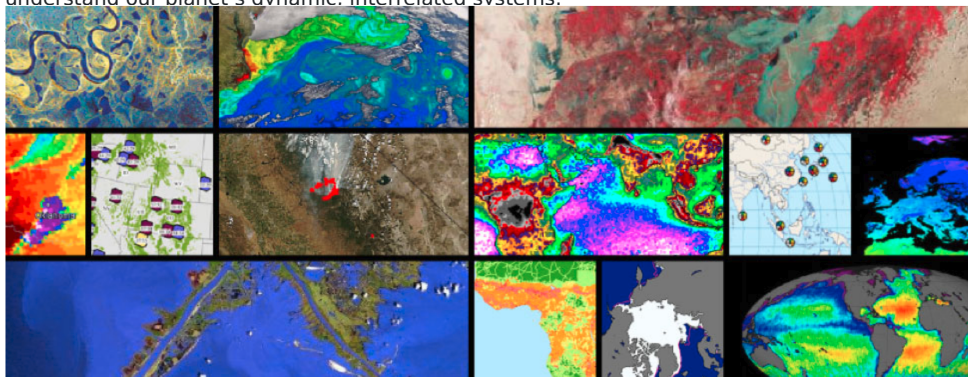


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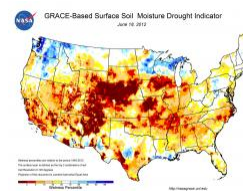
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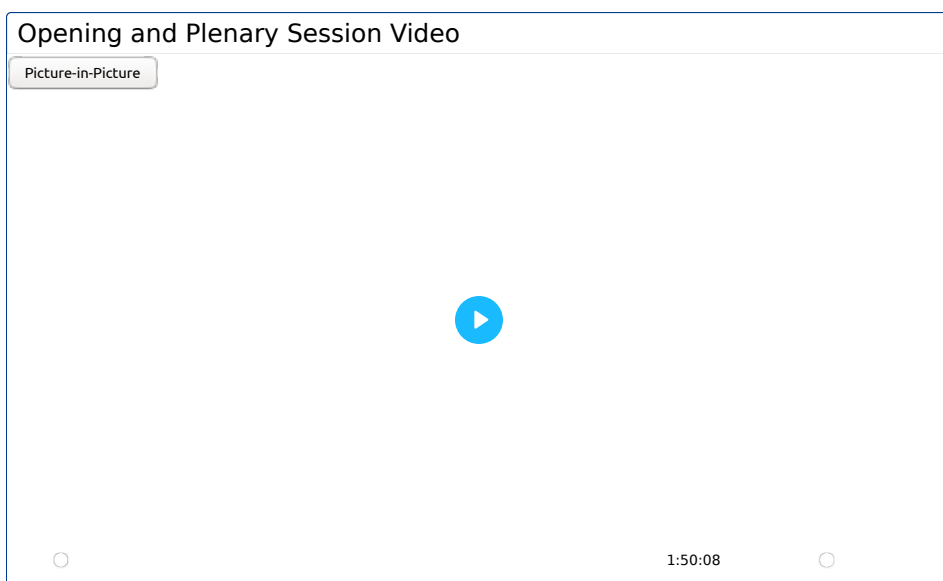


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Opening and Plenary Session

Date: Monday, September 28

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Event Ended

Opening Session

Opening Remarks

William Emery, General Chair

Toshio Fukuda, IEEE President

Paolo Gamba, IEEE GRSS President

Plenary Presentations: Theme — "Global Perspectives for Local Solutions"

"Earth System Science: Understanding and Adapting to our Changing Planet"

Karen St. Germain

“Digital Earth: Big Data for Sustainable Development”

Stuart Minchin

“Voyaging to our Kupuna Islands: What do they tell us about climate change”

Haunani Kane

Awards Presentations

Alberto Moreira

Paolo Gamba

Awards and Recognitions

2020 IEEE Fellow Recognition

Dr. Bing Zhang

Prof. Mengdao Xing

Dr. Xiaofeng Li

2020 IEEE GRSS Education Award

Prof. Jon Atli Benediktsson

2020 IEEE GRSS Outstanding Service Award

Prof. Melba M. Crawford

2020 IEEE GRSS Industry Leader Award

Dr. Yu Okada

2020 IEEE GRSS Fawwaz Ulaby Distinguished Achievement Award

Dr. Riccardo Lanari

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Closing Remarks and Prize Drawing

Picture-in-Picture

Closing Ceremony and Awards

Event Ended

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Thank you for participating - William Emery

IGARSS 2020 Summary - Adriano Camps

Society Awards - GRSS President, Paolo Gamba

GRSS Special Awards - Jasmeet Judge

IEEE GRSS Early Career Award

IEEE GRSS Regional Leader Award

IEEE Chapter Excellence Award

IEEE GRSS David Landgrebe Award

Publication Awards - Paolo Gamba

GRSS Publication Awards - Antonio Plaza

IEEE GRSS Transaction Prize Paper Award

IEEE GRSS Letters Prize Paper Award

IEEE GRSS Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS) Prize Paper Award

IEEE GRSS Highest Impact Paper Award

GRSS President introducing 2019 IGARSS awards - Paolo Gamba

Symposium Awards - Francesca Bovolo

IEEE GRSS Symposium Prize Paper Award

IEEE GRSS Symposium Interactive Session Prize Paper Award

GRSS President introducing the Student Paper Competition Award - Paolo Gamba

Symposium Awards Chair, Francesca Bovolo, and GRSS President, Paolo Gamba will present three IEEE GRSS Student Prize Paper Awards including the IEEE Mikio Takagi Student Prize

GRSS President, awards remarks - Paolo Gamba

GRSS REMOTE SENSING MOOC - J. Richards

GRSS 2nd Student Grand Challenge and NSSTC Presentation - Adriano Camps

2020 IGARSS PRIZE DRAWING - Ryan Perry

From IGARSS 2020 to IGARSS 2021

William Emery and Adriano Camps

Ramon Hanssen and Joost Vandenabeele

IEEE IGARSS 2020 DIGITAL GIFT - William Emery and Adriano Camps

HAWAIIAN FAREWELL - William Emery and Adriano Camps

IGARSS 2020

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MO2.R1 - Land Use Applications I Monday, September 28, 07:30 - 09:30 • Room 1

[MO2.R1.1: A MULTI-STAGE NETWORK FOR IMPROVING THE SAMPLE QUALITY IN AERIAL IMAGE OBJECT DETECTION](#)

[Han, Wei](#), China University of Geosciences (Wuhan), China [Feng, Ruyi](#), China University of Geosciences (Wuhan), China [Wang, Lizhe](#), China University of Geosciences (Wuhan), China [Li, Fengpeng](#), China University of Geosciences (Wuhan), China [Wu, Lin](#), China University of Geosciences (Wuhan), China

[MO2.R1.2: URBAN LAND-USE AND LAND-COVER MAPPING BASED ON THE CLASSIFICATION OF TRANSPORT DEMAND AND REMOTE SENSING DATA](#)

[Tacconi, Chiara](#), University of Genoa, Italy [Tuscano, Maria Pia](#), University of Genoa, Italy [Moser, Gabriele](#), University of Genoa, Italy [Sacco, Nicola](#), University of Genoa, Italy

[MO2.R1.3: A STUDY OF DETECTING COAL SEAM FIRES BY REMOVING OTHER HIGH TEMPERATURE LOCATIONS FROM LANDSAT 8 OLI/TIRS IMAGES](#)

[Mukherjee, Jit](#), Indian Institute of Technology Kharagpur, India [Mukhopadhyay, Jayanta](#), Indian Institute of Technology Kharagpur, India [Chakravarty, Debashish](#), Indian Institute of Technology Kharagpur, India [Aikat, Subhas](#), Indian Institute of Technology Kharagpur, India

[MO2.R1.4: ANALYSIS OF OIL STORAGE TREND USING KOMPSAT-5 SAR DATA](#)

[Back, Minyoung](#), SI Analytics, Korea (South) [Jeon, Taegyun](#), SI Analytics, Korea (South)

[MO2.R1.5: DENSE GREENHOUSE EXTRACTION IN HIGH SPATIAL RESOLUTION REMOTE SENSING IMAGERY](#)

[Chen, Dingyuan](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China [Ma, Ailong](#), Wuhan University, China [Cao, Liqin](#), Wuhan University, China

[MO2.R1.6: DETECTION OF LANDSLIDES INDUCED BY THE 2018 HOKKAIDO EASTERN IBURI EARTHQUAKE USING MULTI-TEMPORAL ALOS-2 IMAGERY](#)

[Liu, Wen](#), Chiba University, Japan [Yamazaki, Fumio](#), National Research Institute for Earth Science and Disaster Resilience, Japan

[MO2.R1.7: SAR DATA FOR LAND USE LAND COVER CLASSIFICATION IN A TROPICAL REGION WITH FREQUENT CLOUD COVER](#)

[Prudente, Victor Hugo Rohden](#), National Institute for Space Research, United States [Sanches, Ieda Del'Arco](#), National Institute for Space Research, Brazil [Adami, Marcos](#), National Institute for Space Research, Brazil [Skakun, Sergii](#), University of Maryland, United States [Oldoni, Lucas Volochen](#), National Institute for Space Research, Brazil [Xaud, Haron Abraham Magalhaes](#), Brazilian Agricultural Research Corporation, Brazil [Xaud, Maristela Ramalho](#), Brazilian Agricultural Research Corporation, Brazil [Zhang, Yiming](#), University of Maryland, United States

MO2.R1.8: VERIFYING RAPID INCREASING OF MEGA-SOLAR PV POWER PLANTS IN JAPAN BY APPLYING A CNN-BASED CLASSIFICATION METHOD TO SATELLITE IMAGES

[Kouyama, Toru](#), National Institute of Advanced Industrial Science and Technology, Japan
[Imamoglu, Nevrez](#), National Institute of Advanced Industrial Science and Technology, Japan
[Imai, Masataka](#), National Institute of Advanced Industrial Science and Technology, Japan
[Nakamura, Ryosuke](#), National Institute of Advanced Industrial Science and Technology, Japan

MO2.R1.9: AGRICULTURE MULTISPECTRAL UAV IMAGE REGISTRATION USING SALIENT FEATURES AND MUTUAL INFORMATION

[Stempliuk, Sergio](#), Agricultural Innovation, Brazil [Menotti, David](#), Federal University of Paraná, Brazil

MO2.R1.10: INTRINSIC IMAGE DECOMPOSITION-BASED RESOLUTION ENHANCEMENT FOR MINERAL MAPPING

[Duan, Puhong](#), Hunan University, China [Ghamisi, Pedram](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Jackisch, Robert](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Kang, Xudong](#), Hunan University, China [Gloaguen, Richard](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Li, Shutao](#), Hunan University, China

MO2.R1.11: IMPACT OF SMALL DAMS ON VEGETATION COVER IN THE POTOHAR REGION OF PAKISTAN

[Pahnwar, Vengus](#), U.S.-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology Jamshoro, Pakistan [Ullah, Asmat](#), U.S.-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology Jamshoro, Pakistan [Zaidi, Arjumand](#), U.S.-Pakistan Center for Advanced Studies in Water, Mehran University of Engineering and Technology Jamshoro, Pakistan

MO2.R2 - Advanced Flood Monitoring and Prediction for Disaster Risk Reduction and Resilient Infrastructure

Monday, September 28, 07:30 - 09:30 • Room 2

MO2.R2.1: APPLYING REMOTE SENSING TO SUPPORT FLOOD RISK ASSESSMENT AND RELIEF AGENCIES: A GLOBAL TO LOCAL APPROACH

[Kettner, Albert J.](#), University of Colorado, United States [Schumann, Guy J.-P.](#), Remote Sensing Solutions, United States [Brakenridge, G. Robert](#), University of Colorado, United States

MO2.R2.2: AUTOMATIC NEAR-REAL TIME FLOOD EXTENT AND DURATION MAPPING BASED ON MULTI-SENSOR EARTH OBSERVATION DATA

[Martinis, Sandro](#), German Aerospace Center (DLR), Germany [Wieland, Marc](#), German Aerospace Center (DLR), Germany [Rättich, Michaela](#), German Aerospace Center (DLR), Germany [Böhnke, Christian](#), German Aerospace Center (DLR), Germany [Riedlinger, Torsten](#), German Aerospace Center (DLR), Germany

MO2.R2.3: FLOOD MAPPING USING UAVSAR AND CONVOLUTIONAL NEURAL NETWORKS

[Denbina, Michael](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Towfic, Zaid](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Thill, Matthew](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Bue, Brian](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kasraee, Neda](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Peacock, Annemarie](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Lou, Yunling](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

MO2.R2.4: SYSTEMATIC AND AUTOMATIC LARGE-SCALE FLOOD MONITORING SYSTEM USING SENTINEL-1 SAR DATA

[Chini, Marco](#), Luxembourg Institute of Science and Technology, Luxembourg [Pelich, Ramona](#), Luxembourg Institute of Science and Technology, Luxembourg [Hostache, Renaud](#), Luxembourg Institute of Science and Technology, Luxembourg [Matgen, Patrick](#), Luxembourg Institute of Science and Technology, Luxembourg [Bossung, Christian](#), Luxembourg Institute of Science and Technology, Luxembourg [Campanella, Paolo](#), FadeOut Software srl, Italy [Rudari, Roberto](#), CIMA Research Foundation, Italy [Bally, Philippe](#), European Space Agency (ESA-

ESRIN), Italy

MO2.R2.5: THE ROLE OF CO- AND CROSS-POLARIZATIONS INSAR COHERENCES IN MAPPING FLOODED URBAN AREAS

[Chini, Marco](#), Luxembourg Institute of Science and Technology, Luxembourg [Pelich, Ramona](#), Luxembourg Institute of Science and Technology, Luxembourg [Pulvirenti, Luca](#), CIMA Research Foundation, Italy [Pierdicca, Nazzareno](#), Sapienza University of Rome, Italy [Hostache, Renaud](#), Luxembourg Institute of Science and Technology, Luxembourg [Matgen, Patrick](#), Luxembourg Institute of Science and Technology, Luxembourg

MO2.R2.6: A STUDY OF AUTOMATIC FLOOD-AREA DETECTION USING ALOS-2 AND ANCILLARY DATA

[Ohki, Masato](#), Japan Aerospace Exploration Agency, Japan [Yamamoto, Kosuke](#), Japan Aerospace Exploration Agency, Japan [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan

MO2.R2.7: MULTI-PERSPECTIVE FRAMEWORK FOR 4D-BIM-INFRASTRUCTURE MANAGEMENT BY UTILIZING EO DATA

[Kwak, Young-Joo](#), National Institute for Land and Infrastructure Management (NILIM-MLIT), Japan

MO2.R2.8: AUTOMATED INUNDATION MAPPING: COMPARISON OF METHODS

[Gebrehiwot, Asmamaw](#), North Carolina Agricultural and Technical State University, United States [Hashemi-Beni, Leila](#), North Carolina Agricultural and Technical State University, United States

MO2.R3 - SAR Interferometry I Monday, September 28, 07:30 - 09:30 • Room 3

MO2.R3.1: GULF STREAM DETECTION AND ESTIMATION WITH RADARSAT-2 ALONG-TRACK INTERFEROMETRY

[Rashid, Mamoon](#), Defence Research and Development Canada (DRDC), Canada [Gierull, Christoph](#), Defence Research and Development Canada (DRDC), Canada

MO2.R3.2: EXPERIMENTAL STUDY ON ALONG TRACK TARGET VELOCITY ESTIMATION FOR MULTIPLE APERTURE SAR-MTI CONFIGURATION

[Suwa, Kei](#), Mitsubishi Electric Corporation, Japan [Wakayama, Toshio](#), Mitsubishi Electric Corporation, Japan

MO2.R3.3: ON THE USE OF PRF DITHERING FOR WIDE SWATH, FINE RESOLUTION INSAR

[Zebker, Howard](#), Stanford University, United States

MO2.R3.4: FEASIBILITY OF RETRIEVING SOIL MOISTURE FROM INSAR DECORRELATION PHASE AND CLOSURE PHASE

[Michaelides, Roger](#), Stanford University, United States [Zebker, Howard](#), Stanford University, United States

MO2.R3.5: A PHYSICS-BASED DECORRELATION PHASE COVARIANCE MODEL FOR EFFECTIVE DECORRELATION NOISE REDUCTION IN INTERFEROGRAM STACKS

[Zheng, Yujie](#), California Institute of Technology, United States [Zebker, Howard](#), Stanford University, United States [Michaelides, Roger](#), Stanford University, United States

MO2.R3.6: A DEEP LEARNING BASED METHOD FOR LOCAL SUBSIDENCE DETECTION AND INSAR PHASE UNWRAPPING: APPLICATION TO MINING DEFORMATION MONITORING

[Wu, Zhipeng](#), Aerospace Information Research Institute, China [Zhang, Heng](#), Aerospace Information Research Institute, China [Wang, Yingjie](#), Aerospace Information Research Institute, China [Wang, Teng](#), Peking University, China [Wang, Robert](#), Aerospace Information Research Institute, China

MO2.R3.7: A THREE-STAGE FRAMEWORK FOR MULTI-BASELINE INSAR PHASE UNWRAPPING

[Xu, Junyi](#), Northwestern Polytechnical University, China [Yu, Hanwen](#), University of Houston, United States [Liu, Songlin](#), Wuhan University, China

MO2.R3.8: IMPROVED INSAR LAYOVER AND SHADOW DETECTION USING MULTI-FEATURE

[Wang, Siyuan](#), Beihang University, China [Xu, Huaping](#), Beihang University, China [Yang, Bo](#), Beihang University, China [Luo, Yao](#), Beihang University, China

MO2.R3.9: AN ADAPTIVE STATISTICAL MULTI-GRID DINSAR TECHNIQUE FOR STUDYING MULTI-SCALE EARTH SURFACE DEFORMATION PHENOMENA

[Mastro, Pietro](#), Università degli Studi della Basilicata, Italy [Falabella, Francesco](#), Università degli Studi della Basilicata, Italy [Pepe, Antonio](#), Italian National Council of Research, Italy

MO2.R3.10: QUANTIFYING THE EFFECT OF THE WIND ON FOREST CANOPY HEIGHT ESTIMATION USING INTERFEROMETRIC SYNTHETIC APERTURE RADAR SYSTEMS

[Benson, Michael](#), University of Michigan, United States [Pierce, Leland](#), University of Michigan, United States [Sarabandi, Kamal](#), University of Michigan, United States

MO2.R4 - International
Spaceborne Imaging
Spectroscopy Missions: Updates and News

Monday, September 28, 07:30 - 09:30 • Room 4

MO2.R4.1: NASA'S SURFACE BIOLOGY AND GEOLOGY CONCEPT STUDY: STATUS AND NEXT STEPS

[Thompson, David](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Schimel, David](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Poulter, Benjamin](#), NASA Goddard Space Flight Center, United States [Brosnan, Ian](#), NASA Ames Research Center, United States [Hook, Simon](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Green, Robert](#), NASA Jet Propulsion Laboratory, United States [Glenn, Nancy](#), University of New South Wales, Australia [Guild, Liane](#), NASA Ames Research Center, United States [Henn, Christopher](#), NASA Goddard Space Flight Center, United States [Cawse-Nicholson, Kerry](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kokaly, Ray](#), United States Geological Survey, United States [Lee, Christine](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Luvall, Jeffrey](#), NASA Marshall Space Flight Center, United States [Miller, Charles](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Nastal, Jamie](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Pavlick, Ryan](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Phillips, Benjamin](#), National Aeronautics and Space Administration (NASA), United States [Schneider, Fabian](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Schollaert Uz, Stephanie](#), NASA Goddard Space Flight Center, United States [Serbin, Shawn](#), Brookhaven National Laboratory, United States [Stavros, Natasha](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Townsend, Philip](#), University of Wisconsin-Madison, United States [Turner, Woody](#), National Aeronautics and Space Administration (NASA), United States [Turpie, Kevin](#), University of Maryland Baltimore County, United States [Wang, Weile](#), NASA Ames Research Center, United States

MO2.R4.2: HYPERSPECTRAL IMAGER SUITE (HISUI) : ITS LAUNCH AND CURRENT STATUS

[Matsunaga, Tsuneo](#), National Institute for Environmental Studies, Japan [Iwasaki, Akira](#), University of Tokyo, Japan [Tachikawa, Tetsushi](#), Japan Space Systems, Japan [Tanii, Jun](#), Japan Space Systems, Japan [Kashimura, Osamu](#), Japan Space Systems, Japan [Mouri, Koichiro](#), Japan Space Systems, Japan [Inada, Hitomi](#), Japan Space Systems, Japan [Tsuchida, Satoshi](#), National Institute of Advanced Industrial Science and Technology, Japan [Nakamura, Ryosuke](#), National Institute of Advanced Industrial Science and Technology, Japan [Yamamoto, Hirokazu](#), National Institute of Advanced Industrial Science and Technology, Japan [Iwao, Koki](#), National Institute of Advanced Industrial Science and Technology, Japan

MO2.R4.3: DATA VALIDATION OF THE DLR EARTH SENSING IMAGING SPECTROMETER DESIS

[Heiden, Uta](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Alonso Gonzalez, Kevin](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Bachmann, Martin](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Burch, Kara](#), Innovative

Imaging and Research, Corp. (I2R), United States [Carmona, Emiliano](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Cerra, Daniele](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [de los Reyes, Raquel](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Dietrich, Daniele](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Knodt, Uwe](#), German Aerospace Center (DLR) Koeln, Germany [Krutz, David](#), German Aerospace Center (DLR) Berlin, Germany [Mueller, Rupert](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Pagnutti, Maria](#), Innovative Imaging and Research, Corp. (I2R), United States [Richter, Rudolf](#), German Aerospace Center (DLR) Oberpfaffenhofen, United States [Ryan, Robert](#), Innovative Imaging and Research, Corp. (I2R), United States [Sebastian, Ilse](#), German Aerospace Center (DLR) Berlin, Germany [Tegler, Mirco](#), German Aerospace Center (DLR) Neustrelitz, Germany

MO2.R4.4: THE ENMAP GERMAN SPACEBORNE IMAGING SPECTROSCOPY MISSION: UPDATE AND HIGHLIGHTS OF RECENT PREPARATORY ACTIVITIES

[Chabrilat, Sabine](#), Helmholtz Center Potsdam GFZ German Research Center for Geosciences, Germany [Guanter, Luis](#), Universitat Politècnica de València, Spain [Segl, Karl](#), Helmholtz Center Potsdam GFZ German Research Center for Geosciences, Germany [Foerster, Saskia](#), Helmholtz Center Potsdam GFZ German Research Center for Geosciences, Germany [Fischer, Sebastian](#), German Aerospace Center (DLR), Germany [Rossner, Godela](#), German Aerospace Center (DLR), Germany [Schickling, Anke](#), German Aerospace Center (DLR), Germany [LaPorta, Laura](#), German Aerospace Center (DLR), Germany [Honold, Hans-Peter](#), OHB System AG, Germany [Storch, Tobias](#), German Aerospace Center (DLR), Germany

MO2.R4.5: THE HYPERSPECTRAL PRISMA MISSION IN OPERATIONS

[Caporusso, Giacomo](#), Politecnico di Bari, Italy [Lopinto, Ettore](#), ASI-Agenzia Spaziale Italiana, Italy [Lorusso, Rino](#), ASI-Agenzia Spaziale Italiana, Italy [Loizzo, Rosa](#), Agenzia Spaziale Italiana, Italy [Guarini, Rocchina](#), ASI-Agenzia Spaziale Italiana, Italy [Daraio, Maria Girolamo](#), ASI-Agenzia Spaziale Italiana, Italy [Sacco, Patrizia](#), ASI-Agenzia Spaziale Italiana, Italy

MO2.R4.6: CLARREO PATHFINDER: MISSION OVERVIEW AND CURRENT STATUS

[Shea, Yolanda](#), NASA Langley Research Center, United States [Fleming, Gary](#), NASA Langley Research Center, United States [Kopp, Greg](#), Laboratory for Atmospheric and Space Physics, United States [Lukashin, Constantine](#), NASA Langley Research Center, United States [Pilewskie, Peter](#), Laboratory for Atmospheric and Space Physics, United States [Smith, Paul](#), Laboratory for Atmospheric and Space Physics, United States [Thome, Kurtis](#), NASA Goddard Space Flight Center, United States [Wielicki, Bruce](#), NASA Langley Research Center, United States [Liu, Xu](#), NASA Langley Research Center, United States [Wu, Wan](#), Science Systems and Applications, Inc., United States

MO2.R5 - Hyperspectral Image Classification I Monday, September 28, 07:30 - 09:30 • Room 5

MO2.R5.1: TRAINING CAPSNETS VIA ACTIVE LEARNING FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Paoletti, Mercedes E.](#), University of Extremadura, Spain [Haut, Juan M.](#), University of Extremadura, Spain [Plaza, Javier](#), University of Extremadura, Spain [Plaza, Antonio](#), University of Extremadura, Spain

MO2.R5.2: DIMENSIONALITY REDUCTION WITH WEIGHTED K-MEANS FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Wong, Michael](#), Kennesaw State University, United States [Hung, Chih-Cheng](#), Kennesaw State University, United States

MO2.R5.3: STATISTICAL PERSPECTIVE OF SOM AND CSOM FOR HYPER-SPECTRAL IMAGE CLASSIFICATION

[Mallapragada, Srivatsa](#), Kennesaw State University, United States [Hung, Chih-Cheng](#), Kennesaw State University, United States

MO2.R5.4: HYPERSPECTRAL BAND SELECTION WITHIN A DEEP REINFORCEMENT LEARNING FRAMEWORK

[Michel, Andreas](#), Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, Germany [Gross, Wolfgang](#), Fraunhofer Institute of Optronics, System

Technologies and Image Exploitation, Germany [Schenkel, Fabian](#), Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, Germany [Middelmann, Wolfgang](#), Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, Germany

[MO2.R5.5: SUPERPIXEL-LEVEL CONSTRAINT REPRESENTATION FOR HYPERSPECTRAL IMAGERY CLASSIFICATION](#)

[Yu, Haoyang](#), Dalian Maritime University, China [Zhang, Xiao](#), Dalian Maritime University, China [Song, Meiping](#), Dalian Maritime University, China [Hu, Jiaochan](#), Dalian Maritime University, China [Gao, Lianru](#), Chinese Academy of Sciences, China

[MO2.R5.6: SELF-PACED LEARNING WITH SUPERPIXELWISE FEATURES FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Tai, Xiaoxiao](#), China University of Petroleum (East China), China [Wang, Guangxing](#), China University of Petroleum (East China), China [Han, Lirong](#), China University of Petroleum (East China), China [Zhang, Xiaoyu](#), China University of Petroleum (East China), China [Ren, Peng](#), China University of Petroleum (East China), China

[MO2.R5.7: MULTISCALE CONVOLUTION NETWORK WITH REGION-BASED MAX VOTING FOR HYPERSPECTRAL IMAGES CLASSIFICATION](#)

[Zhang, Xuming](#), China University of Petroleum (East China), China [Zhang, Aizhu](#), China University of Petroleum (East China), China [Sun, Genyun](#), China University of Petroleum (East China), China [Yao, Yanjuan](#), Ministry of Environmental protection of China, China

[MO2.R5.8: IMPROVED LOCAL COVARIANCE MATRIX REPRESENTATION FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Zhang, Xinyu](#), Central China Normal University, China [Wei, Yantao](#), Central China Normal University, China [Yao, Huang](#), Central China Normal University, China [Zhou, Yicong](#), University of Macau, China

[MO2.R5.9: HYPERSPECTRAL IMAGE CLASSIFICATION VIA OBJECT-ORIENTED SEGMENTATION-BASED SEQUENTIAL FEATURE EXTRACTION AND RECURRENT NEURAL NETWORK](#)

[Ma, Andong](#), Texas A&M University, United States [Filippi, Anthony M.](#), Texas A&M University, United States

[MO2.R5.10: 2D-SSA BASED MULTISCALE FEATURE FUSION FOR FEATURE EXTRACTION AND DATA CLASSIFICATION IN HYPERSPECTRAL IMAGERY](#)

[Fu, Hang](#), China University of Petroleum (East China), China [Sun, Genyun](#), China University of Petroleum (East China), China [Ren, Jinchang](#), University of Strathclyde, United Kingdom [Zabalza, Jamie](#), University of Strathclyde, United Kingdom [Zhang, Aizhu](#), China University of Petroleum (East China), China [Yao, Yanjuan](#), Ministry of Environmental protection of China, China

[MO2.R5.11: MULTISCALE FEATURE EXTRACTION WITH GAUSSIAN CURVATURE FILTER FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Hao, Qiaobo](#), Hunan University, China [Li, Shutao](#), Hunan University, China [Fang, Leyuan](#), Hunan University, China [Kang, Xudong](#), Hunan University, China

MO2.R6 - SAR Tomography

Monday, September 28, 07:30 - 09:30 • Room 6

[MO2.R6.1: CHANNEL IMBALANCE CALIBRATION METHOD FOR AIRBORNE TOMOSAR SYSTEM](#)

[Jiao, Zekun](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ding, Chibiao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Qiu, Xiaolan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhou, Liangjiang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Guo, Jiayi](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Han, Dong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

[MO2.R6.2: RADIOMETRIC ISSUES IN BIOMASS TOMOGRAPHIC IMAGING](#)

[Mariotti d'Alessandro, Mauro](#), Politecnico di Milano, Italy [Tebaldini, Stefano](#), Politecnico di Milano, Italy

[MO2.R6.3: ARRAY MANIFOLD CALIBRATION FOR MULTICHANNEL RADAR ICE](#)

SOUNDERS

[Moore, Theresa](#), University of Kansas, United States [Paden, John](#), University of Kansas, United States

MO2.R6.4: BOREAL FOREST RADAR TOMOGRAPHY AT P, L AND S-BANDS AT BERMS AND DELTA JUNCTION

[Hensley, Scott](#), NASA Jet Propulsion Laboratory, United States [Ahmed, Razi](#), NASA Jet Propulsion Laboratory, United States [Chapman, Bruce](#), NASA Jet Propulsion Laboratory, United States [Hawkins, Brian](#), NASA Jet Propulsion Laboratory, United States [Lavalle, Marco](#), NASA Jet Propulsion Laboratory, United States [Pinto, Naiara](#), NASA Jet Propulsion Laboratory, United States [Pardini, Matteo](#), German Aerospace Center, Germany [Papathanassiou, Konstantinos](#), German Aerospace Center, Germany [Siqueira, Paul](#), University of Massachusetts, Amherst, United States [Treuhaff, Robert](#), NASA Jet Propulsion Laboratory, United States

MO2.R6.5: HIGH-RESOLUTION SAR TOMOGRAPHY VIA SEGMENTED DECHIRPING

[Liu, Minkun](#), School of Information and Electronics, Beijing Institute of Technology, China [Wang, Yan](#), School of Information and Electronics, Beijing Institute of Technology, China [Ding, Zegang](#), School of Information and Electronics, Beijing Institute of Technology, China [Li, Linghao](#), School of Information and Electronics, Beijing Institute of Technology, China [Zeng, Tao](#), School of Information and Electronics, Beijing Institute of Technology, China

MO2.R6.6: PROCESSING OPTIONS FOR HIGH-RESOLUTION SAR TOMOGRAPHY FROM IRREGULAR TRAJECTORIES

[Yu, Yanghai](#), Wuhan University & Politecnico di Milano, China [Tebaldini, Stefano](#), politecnico di milano, Italy [Mariotti d'Alessandro, Mauro](#), Politecnico di Milano, Italy [Liao, Mingsheng](#), Wuhan University, China

MO2.R6.7: REGULARIZED SAR TOMOGRAPHY APPROACHES

[Budillon, Alessandra](#), Dipartimento di Igegneria Univ. of Napoli Parthenope, Italy [Denis, Loic](#), UJM-Saint-Etienne, CNRS, Institut d'Optique Graduate School, France [Rambour, Clement](#), LTCI, Telecom Paris, Institut Polytechnique de Paris, France [Schirinz, Gilda](#), Dipartimento di Igegneria Univ. of Napoli Parthenope, Italy [Tupin, Florence](#), LTCI, Telecom Paris, Institut Polytechnique de Paris, France

MO2.R6.8: 3D HIGH-RESOLUTION IMAGING OF MB-TOMOSAR BASED ON SBRIM ALGORITHM

[Zhang, Xingyue](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China [Chen, Yifei](#), University of Electronic Science and Technology of China, China [Zhan, Xu](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China

MO2.R6.9: A MULTI-RESOLUTION GLRT TEST FOR THE DETECTION OF PERSISTENT SCATTERERS IN SAR TOMOGRAPHY

[Fornaro, Gianfranco](#), Institute for the Electromagnetic Sensing of the Environment, Italy [Pauciullo, Antonio](#), Institute for the Electromagnetic Sensing of the Environment, Italy [Reale, Diego](#), Institute for the Electromagnetic Sensing of the Environment, Italy [Verde, Simona](#), Institute for the Electromagnetic Sensing of the Environment, Italy

MO2.R6.10: GEN-CAPON AND GEN-MUSIC DIFF-TOMO FOR NON-STATIONARY DISTRIBUTED MEDIA: EXPLORATION OF POTENTIAL FOR SUBCANOPY SUBSIDENCE MONITORING

[Lombardini, Fabrizio](#), University of Pisa, Italy [Bordbari, Reza](#), University of Pisa, Italy

MO2.R6.11: SINGLE-PASS SPACEBORNE TRANSMITTER-STATIONARY RECEIVER BISTATIC SAR TOMOGRAPHY - NOVEL SOLUTION WITH 3 IMAGING CHANNELS

[Ciucu, Madalina](#), University Politehnica of Bucharest, Romania [Anghel, Andrei](#), University Politehnica of Bucharest, Romania [Cacoveanu, Remus](#), University Politehnica of Bucharest / EOS Electronic Systems, Romania [Rommen, Bjorn](#), European Space Agency (ESA-ESTEC), Netherlands [Ciochina, Silviu](#), University Politehnica of Bucharest, Romania

MO2.R7 - Global Satellite

Monday, September 28, 07:30 - 09:30 • Room 7

Capability is Key to Effective Response to All Scales of Natural Disasters

MO2.R7.1: THE JOINT POLAR SATELLITE SYSTEM AND THE INTERNATIONAL CONSTELLATION: SUPPORTING ENVIRONMENTAL APPLICATIONS ACROSS THE GLOBE

[Goldberg, Mitchell](#), NOAA, United States [Price, Julie](#), Science and Technology Corporation, United States

MO2.R7.2: NOAA SATELLITES: PROVIDING CRITICAL GLOBAL DATA FOR LOCAL ENVIRONMENTAL CHALLENGES

[Sjoberg, Bill](#), GST Contractor support to JPSS Program, United States [Goldberg, Mitch](#), JPSS Program, United States [Straka, William](#), JPSS Program, United States

MO2.R7.3: USING SATELLITE CAPABILITIES TO HANDLE THE PACIFIC'S STRONGEST TYPHOONS

[Edson, Roger](#), NOAA/NWS, United States

MO2.R7.4: OVERCOMING BARRIERS TO THE USE OF SATELLITE DATA IN FISHERIES MANAGEMENT

[Wilson, Cara](#), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, United States [Robinson, Dale](#), University of California, Santa Cruz, United States [Shotwell, S. Kalei](#), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, United States

MO2.R7.5: MONITORING THE CHANGES OF THE ARCTIC ENVIRONMENT WITH THE JOINT POLAR SATELLITE SYSTEM (JPSS) SOUNDING DATA PRODUCTS

[Zhou, Lihang](#), NOAA/NESDIS/JPSS, United States

MO2.R7.6: MONITORING HEAVY PRECIPITATION WITH THE CMORPH INTEGRATED SATELLITE PRECIPITATION ESTIMATES

[Xie, Pingping](#), NOAA/NWS/NCEP, United States [Joyce, Robert](#), NOAA/NWS/NCEP, United States [Wu, Shaorong](#), NOAA/NWS/NCEP, United States [Ren, Li](#), NOAA/NWS/NCEP, United States [Katz, Bert](#), NOAA/NWS/NCEP, United States

MO2.R7.7: TAILORING NATIONAL WEATHER SERVICE TRAINING TO SERVE THE PACIFIC'S MOST REMOTE LOCATIONS

[Lindstrom, Scott](#), UW-Madison, United States [Schmit, Timothy](#), NOAA/NESDIS ASPB, United States [Gerth, Jordan](#), NOAA/NWS/OBS, United States [Lau, Eric](#), NOAA/NWS/PRH, United States [Eckstein, Nathan](#), NOAA/NWS, United States

MO2.R7.8: APPLYING THE NOAA UNIQUE COMBINED ATMOSPHERIC PROCESSING SYSTEM (NUCAPS) TO SUPPORT FORECASTERS AT THE US NAVY AND US AIR FORCE IN MONITORING IMPACTFUL PACIFIC WEATHER EVENTS

[Kuciauskas, Arunas](#), Naval Research Laboratory, United States [Esmaili, Rebekah](#), Science and Technology Corporation, United States [Reale, Anthony](#), National Oceanographic and Atmospheric Administration/ National Environmental Satellite, Data, and Information Service, United States [Nalli, Nicholas](#), National Oceanographic and Atmospheric Administration/I M Systems Group, United States

MO2.R8 - Ocean Biology, Temperature and Salinity

Monday, September 28, 07:30 - 09:30 • Room 8

MO2.R8.1: SPATIAL AND SEASONAL VARIATIONS OF THE UPPER OCEAN CHLOROPHYLL CONCENTRATION IN THE EASTERN NORTH PACIFIC

[Ning, Jue](#), Hohai University, China [Xu, Qing](#), Hohai University, China [Wang, Tao](#), Ocean University of China, China

MO2.R8.2: MACHINE LEARNING CLASSIFICATION, FEATURE RANKING AND REGRESSION FOR WATER QUALITY PARAMETERS RETRIEVAL IN VARIOUS OPTICAL WATER TYPES FROM HYPER-SPECTRAL OBSERVATIONS

[Blix, Katalin](#), UiT The Arctic University of Norway, Norway

MO2.R8.3: MAPPING RED TIDE INTENSITY USING MULTISPECTRAL CAMERA ON

UNMANNED AERIAL VEHICLE: A CASE STUDY IN KOREAN SOUTH COAST

[Kim, Wonkook](#), Pusan National University, Korea (South) [Jung, Sunghun](#), Dongshin University, Korea (South) [Kim, Keunyoung](#), Korea Institute of Ocean Science and Technology, Korea (South) [Ryu, Joo-Hyung](#), Korea Institute of Ocean Science and Technology, Korea (South) [Moon, Yongseon](#), Sunchon National University, Korea (South)

MO2.R8.4: ESTIMATION OF COLORED DISSOLVED ORGANIC MATTER USING SENTINEL-2 DATA IN THE COASTAL WATERS OF SINGAPORE

[Wong, Joel](#), National University of Singapore, Singapore [Wong, Elizabeth Wing-See](#), National University of Singapore, Singapore [Liew, Soo Chin](#), National University of Singapore, Singapore [Chee, Sandric Yew Leong](#), National University of Singapore, Singapore

MO2.R8.5: OCEAN COLOR MODELING IN THE CENTRAL RED SEA USING OCEANOGRAPHICAL OBSERVATION AND SIMULATED PARAMETERS

[Li, Wenzhao](#), Computational and Data Sciences Graduate Program, United States [Tiwari, Surya](#), Computational and Data Sciences Graduate Program, Saudi Arabia [Karuppasamy Ponnambalam, ManiKandan](#), KFUPM, Saudi Arabia [El-Askary, Hesham](#), Center of Excellence of Earth Observations and Modeling, United States

MO2.R8.6: MONITORING OF TIANWAN NUCLEAR POWER PLANT THERMAL POLLUTION BASED ON REMOTELY SENSED LANDSAT DATA

[Nie, Pingjing](#), State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Haitao, Zhu](#), Ministry of Ecology and Environment Center for Satellite Application on Ecology and Environment, Beijing, China [Honggen, Xu](#), Wuhan Center of China Geological Survey (Central South China Innovation Center for Geosciences), China [Huang, Yaohuan](#), University of Chinese Academy of Sciences, China [Wu, Hua](#), State Key Laboratory of Resources and Environmental Information System, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China

MO2.R8.7: DEBYE DIELECTRIC MODEL FUNCTION FOR SEAWATER BASED ON EXPANDED L-BAND MEASUREMENT DATA SET

[Zhou, Yiwen](#), George Washington University, United States [Lang, Roger](#), George Washington University, United States [Park, Young Soung](#), George Washington University, United States [Dinnat, Emmanuel](#), National Aeronautics and Space Administration, United States [Le Vine, David](#), National Aeronautics and Space Administration, United States

MO2.R8.8: SEA SURFACE SALINITY SUBFOOTPRINT VARIABILITY FROM A GLOBAL HIGH-RESOLUTION MODEL

[Bingham, Frederick](#), Univeristy of North Carolina Wilmington, United States [D'Addezio, Joseph](#), Naval Research Laboratory, United States [Fournier, Severine](#), California Institute of Technology, United States [Zhang, Hong](#), University of California, Los Angeles, United States [Ulfsax, Karly](#), University of North Carolina Wilmington, United States

MO2.R8.9: SIMULATION ANALYSIS OF PAYLOAD IMR AND MICAP ONBOARD CHINESE OCEAN SALINITY SATELLITE

[Li, Yan](#), Beijing Piesat Information Technology Co. Ltd, China [Yin, Xiaobin](#), Beijing Piesat Information Technology Co. Ltd, China [Zhou, Wu](#), National Satellite Ocean Application Service, China [Lin, Mingsen](#), National Satellite Ocean Application Service, China [Ma, Chaofei](#), National Satellite Ocean Application Service, China [Jin, Rong](#), Huazhong University of Science and Technology, China [Liu, Hao](#), National Space Science Center, Chinese Academy of Sciences, China [Li, Yinan](#), China Academy of Space Technology, China

MO2.R8.10: AN EMPIRICAL SEA ICE CORRECTION ALGORITHM FOR SMAP SSS RETRIEVAL IN THE ARCTIC OCEAN

[Tang, Wengqing](#), NASA Jet Propulsion Laboratory, United States [Yueh, Simon](#), NASA Jet Propulsion Laboratory, United States [Fore, Alexander](#), NASA Jet Propulsion Laboratory, United States [Hayashi, Akiko](#), NASA Jet Propulsion Laboratory, United States

MO2.R8.11: SEA SURFACE SALINITY RETRIEVAL FROM AQUARIUS IN THE SOUTH CHINA SEA USING MACHINE LEARNING ALGORITHM

[Zhang, Lanjie](#), Beijing Information Science and Technology University, China [Zhang, Ruanyu](#), Shanghai Spaceflight Institute of TT&C and Telecommunication, China [He, Qirui](#), School of

MO2.R9 - RS of Snow and Frozen Monday, September 28, 07:30 - 09:30 • Room 9 Ground

MO2.R9.1: SNOW SIZE DISTRIBUTION AND AGGREGATION MODELING BASED ON THE BICONTINUOUS MODEL

[Zhu, Jiyue](#), University of Michigan, United States [Tsang, Leung](#), University of Michigan, United States [Shen, Haoran](#), University of Michigan, United States [Xu, Xiaolan](#), NASA Jet Propulsion Laboratory, United States

MO2.R9.2: SNOW GRAIN SIZE ESTIMATES FROM AIRBORNE KA-BAND RADAR MEASUREMENTS

[Li, Jilu](#), University of Kansas, United States [Camps-Raga, Bruno](#), University of Kansas, United States [Rodriguez-Morales, Fernando](#), University of Kansas, United States [Gomez-Garcia, Daniel](#), University of Kansas, United States [Paden, John](#), University of Kansas, United States [Leuschen, Carl](#), University of Kansas, United States

MO2.R9.3: VALIDATION OF THE COMBINED ACTIVE AND PASSIVE MICROWAVE SNOW RETRIEVAL ALGORITHM USING ESA SNOVSAR APPLIED TO CANADA AND US

[Kang, Dohyuk](#), University of Maryland, United States [Zhu, Jiyue](#), University of Michigan, United States [Kim, Edward](#), NASA Goddard Space Flight Center, United States [Tsang, Leung](#), University of Michigan, United States

MO2.R9.4: MULTI-FREQUENCY SAR IMAGES FOR SWE RETRIEVAL IN ALPINE AREAS THROUGH MACHINE LEARNING APPROACHES

[Pettinato, Simone](#), CNR-IFAC, Italy [Paloscia, Simonetta](#), CNR-IFAC, Italy [Santi, Emanuele](#), CNR-IFAC, Italy [Palchetti, Enrico](#), CNR-IFAC, Italy [De Gregorio, Ludovica](#), EURAC, Italy [Notarnicola, Claudia](#), EURAC, Italy [Cuozzo, Giovanni](#), EURAC, Italy [Marin, Carlo](#), EURAC, Italy [Cigna, Francesca](#), ASI-Agenzia Spaziale Italiana, Italy [Tapete, Deodato](#), ASI-Agenzia Spaziale Italiana, Italy

MO2.R9.5: AIRBORNE DUAL-BAND MICROWAVE RADAR SYSTEM FOR SNOW THICKNESS MEASUREMENT

[Taylor, Drew](#), University of Alabama, United States [Yan, Stephen](#), University of Alabama, United States [O'Neill, Charles](#), University of Alabama, United States [Gogineni, Prasad](#), University of Alabama, United States [Gurbuz, Sevgi](#), University of Alabama, United States [Aslan, Barbaros](#), University of Alabama, United States [Larson, Jordan](#), University of Alabama, United States [Elluru, Deepak](#), University of Alabama, United States [Kolpuke, Shriniwas](#), University of Alabama, United States [Li, Linfeng](#), University of Alabama, United States [Mahjabeen, Farin](#), University of Alabama, United States [Nunn, Josh](#), University of Alabama, United States [Rahman, Mahbubur](#), University of Alabama, United States [Reyhani, Omid](#), University of Alabama, United States [Simpson, Christopher D.](#), University of Alabama, United States [Thomas, Ryan](#), University of Alabama, United States [Wattal, Shashank](#), University of Alabama, United States [Blake, Jonathan](#), University of Alabama, United States [Boyle, Carter](#), University of Alabama, United States [Glidden, John](#), University of Alabama, United States [Higgs, MacKenzie](#), University of Alabama, United States

MO2.R9.6: ASSESSING THE PERFORMANCES OF FY-3D/MWRI AND DMSP SSMIS IN GLOBSNOW-2 ASSIMILATION SYSTEM FOR SWE ESTIMATION

[Yang, Jianwei](#), Beijing Normal University, China [Jiang, Lingmei](#), Beijing Normal University, China [Luoju, Kari](#), Finnish Meteorological Institute, Finland [Lemmetyinen, Juha](#), Finnish Meteorological Institute, Finland [Takala, Matias](#), Finnish Meteorological Institute, Finland

MO2.R9.7: DIAGNOSTIC ANALYSIS OF A DATA ASSIMILATION FRAMEWORK FOR IMPROVING SNOW MASS ESTIMATION IN COMPLEX TERRAIN

[Ahmad, Jawairia](#), University of Maryland, United States [Forman, Barton](#), University of Maryland, United States

MO2.R9.8: THE VALIDATION OF SNOW COVER PRODUCT OVER HIGH MOUNTAIN ASIA

[Su, Xu](#), Beijing Normal University, China [Jiang, Lingmei](#), Beijing Normal University, China [Wang, Gongxue](#), Beijing Normal University, China [Wang, Jian](#), Beijing Normal University, China

MO2.R9.9: OBSERVING SYSTEM SIMULATION EXPERIMENT FOR REMOTE SENSING OF SNOW AT P-BAND

[Xu, Xiaolan](#), NASA Jet Propulsion Laboratory, United States [Shah, Rashmi](#), NASA Jet Propulsion Laboratory, United States [Yueh, Simon](#), NASA Jet Propulsion Laboratory, United States [Margulis, Steve](#), University of California, Los Angeles, United States

MO2.R9.10: CHARACTERIZATION OF ALPINE SNOWPACKS USING A LOW COMPLEXITY PORTABLE MIMO RADAR SYSTEM

[Harkati, Lekhmissi](#), IETR/University of Rennes 1, France [Abdo, Ray](#), IETR/University of Rennes 1, France [Avrillon, Stephane](#), IETR/University of Rennes 1, France [Ferro-Famil, Laurent](#), IETR/University of Rennes 1, France [Gouttevin, Isabelle](#), Météo-France/CNRS, France [Deliot, Yannick](#), Météo-France/CNRS, France [Merzisen, Hugo](#), Météo-France/CNRS, France [Salze, Pascal](#), Météo-France/CNRS, France [Delbert, Franck](#), Météo-France/CNRS, France [Lapalus, Philippe](#), Météo-France/CNRS, France [Lejeune, Yves](#), Météo-France/CNRS, France [Le Gac, Erwan](#), Météo-France/CNRS, France [Bellot, Hervé](#), Météo-France/CNRS, France [Ravana, Xavier](#), Météo-France/CNRS, France [Karbou, Fatima](#), Météo-France/CNRS, France

MO2.R9.11: ESTIMATING EFFECTIVE SNOW GRAIN SIZE USING NORMALIZED CHANNEL RATIOS OF MODIS 0.86 AND 1.64 MICRON BANDS

[Hong, Gang](#), Science Systems and Applications, Inc., United States [Smith Jr., William](#), NASA Langley Research Center, United States [Sun-Mack, Sunny](#), Science Systems and Applications, Inc., United States [Minnis, Patrick](#), Science Systems and Applications, Inc., United States [Chen, Yan](#), Science Systems and Applications, Inc., United States

MO2.R9.12: SNOW RADAR LAYER TRACKING USING ITERATIVE NEURAL NETWORK APPROACH

[Ibikunle, Oluwanisola](#), CREsis / University of Kansas, United States [Paden, John](#), Center for Remote Sensing Ice Sheet, United States [Rahnemoonfar, Maryam](#), University of Maryland, Baltimore County, Maryland, United States [Crandall, David](#), Indiana University School of Informatics, United States [Yari, Masoud](#), Texas A&M University-Corpus Christi, United States

MO2.R10 - Remote Sensing for Forest and Vegetation Structure Monday, September 28, 07:30 - 09:30 • Room 10

MO2.R10.1: THE RELATIONSHIP BETWEEN CANOPY CLUMPING INDEX (CI), FRACTIONAL VEGETATION COVER (FVC), AND LEAF AREA INDEX (LAI): AN ANALYSIS OF GLOBAL SATELLITE PRODUCTS

[Fang, Hongliang](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Li, Sijia](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Zhang, Yinghui](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Wei, Shanshan](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Wang, Yao](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China

MO2.R10.2: INTEGRATING UAV AND LIDAR DATA FOR RETRIEVING TREE VOLUME OF HINOKI FORESTS

[Yoshii, Tatsuki](#), Mie University, Japan [Matsumura, Naoto](#), Mie University, Japan [Lin, Chinsu](#), National Chiayi University, Taiwan

MO2.R10.3: STUDY ON UAV SENSED CANOPY LEAF DISTRIBUTION USING COMPUTER SIMULATION

[Wu, Haobo](#), Peking University, China [Yang, Siqu](#), Peking University, China [Qi, Jianbo](#), Beijing Forestry University, China [Hu, Ling](#), Peking University, China [Fan, Wenjie](#), Peking University, China

MO2.R10.4: A FUZZY APPROACH TO INDIVIDUAL TREE CROWN DELINEATION IN UAV BASED PHOTOGRAMMETRIC MULTISPECTRAL DATA

[Harikumar, Aravind](#), University of Toronto, Canada [D'Odorico, Petra](#), Swiss Federal Institute for Forest, Snow and Landscape Research, Switzerland [Ensminger, Ingo](#), University of Toronto, Canada

MO2.R10.5: MAPPING TREE CANOPY COVER AND CANOPY HEIGHT WITH L-BAND

SAR USING LIDAR DATA AND RANDOM FORESTS

[Chen, Richard](#), NASA Jet Propulsion Laboratory, United States [Pinto, Naiara](#), NASA Jet Propulsion Laboratory, United States [Duan, Xueyang](#), NASA Jet Propulsion Laboratory, United States [Tabatabaeenejad, Alireza](#), University of Southern California, United States [Moghaddam, Mahta](#), University of Southern California, United States

MO2.R10.6: DOES REPEATED PRESCRIBED BURNING RESULT IN FOREST STRUCTURE SIMILAR TO THAT OF WILDFIRE? INSIGHT FROM ANALYSIS OF LIDAR DATA OF THE NEW JERSEY PINELANDS NATIONAL RESERVE

[Warner, Timothy](#), West Virginia University, United States [Skowronski, Nicholas](#), USDA Forest Service, United States [La Pama, Inga](#), Rutgers University, United States

MO2.R10.7: MULTISCALE MODEL OF MOVING VEGETATIVE CLUTTER IN ISAR IMAGING

[Mitchell, Jon](#), University of Texas at Arlington, United States [Tjuatja, Saibun](#), University of Texas at Arlington, United States

MO2.R10.8: INITIAL TESTS FOR THE GENERATION OF A SPANISH NATIONAL MAP OF FOREST HEIGHT FROM TANDEM-X DATA

[Gomez, Cristina](#), Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria, Spain [Romero-Puig, Noelia](#), University of Alicante, Spain [Lopez-Sanchez, Juan M.](#), University of Alicante, Spain [Mestre-Quereda, Alejandro](#), University of Alicante, Spain [Zhu, Jianjun](#), Central South University, China [Fu, Haiqiang](#), Central South University, China [He, Wenjie](#), Central South University, China [Xie, Qinghua](#), China University of Geosciences, China

MO2.R10.9: ESTIMATION OF STEM DENSITY IN HEMI-BOREAL FORESTS USING AIRBORNE LOW-FREQUENCY SYNTHETIC APERTURE RADAR

[Fransson, Johan](#), Swedish University of Agricultural Sciences, Sweden [Wallerman, Jörgen](#), Swedish University of Agricultural Sciences, Sweden [Persson, Henrik](#), Swedish University of Agricultural Sciences, Sweden [Ulander, Lars](#), Chalmers University of Technology, Sweden

MO2.R10.10: DAMAGED TREES DETECTION USING THE EXPANSION OF DEEP LEARNING MODEL FROM UAV RGB IMAGES TO MULTISPECTRAL IMAGES

[Lee, Hwa-Seon](#), Inha University, Korea (South) [Seo, Won-Woo](#), Inha University, Korea (South) [Lee, Kyu-Sung](#), Inha University, Korea (South)

MO2.R10.11: DELINEATION OF INDIVIDUAL TREE CROWNS IN WORLDVIEW-3 SATELLITE IMAGERY WITH MULTISCALE FITTING METHOD

[Tong, Fei](#), University of New Brunswick, Canada [Zhang, Yun](#), University of New Brunswick, Canada

MO2.R11 - Remote Sensing for Crop Monitoring, Mapping and Classification I Monday, September 28, 07:30 - 09:30 • Room 11

MO2.R11.1: APPLICATION OF DEEP LEARNING TO OPTICAL AND SAR IMAGES FOR THE CLASSIFICATION OF AGRICULTURAL AREAS IN ITALY

[Lapini, Alessandro](#), Consiglio Nazionale delle Ricerche - Istituto di Fisica Applicata "Nello Carrara", Italy [Fontanelli, Giacomo](#), Consiglio Nazionale delle Ricerche - Istituto di Fisica Applicata "Nello Carrara", Italy [Pettinato, Simone](#), Consiglio Nazionale delle Ricerche - Istituto di Fisica Applicata "Nello Carrara", Italy [Santi, Emanuele](#), Consiglio Nazionale delle Ricerche - Istituto di Fisica Applicata "Nello Carrara", Italy [Paloscia, Simonetta](#), Consiglio Nazionale delle Ricerche - Istituto di Fisica Applicata "Nello Carrara", Italy [Tapete, Deodato](#), Italian Space Agency, Italy [Cigna, Francesca](#), Italian Space Agency, Italy

MO2.R11.2: EARLY-SEASON CROP CLASSIFICATION WITH RADARSAT-2 POLARIMETRIC SYNTHETIC APERTURE RADAR IMAGERY

[Tan, Weikai](#), University of Waterloo, Canada [Sinha, Abhijit](#), A.U.G. Signals Ltd., Canada [Li, Yifeng](#), A.U.G. Signals Ltd., Canada [Ma, Lingfei](#), University of Waterloo, Canada [Li, Jonathan](#), University of Waterloo, Canada

MO2.R11.3: FINE CLASSIFICATION OF RICE IN NORTHEAST THAILAND USING C- AND L-BAND TIME-SERIES SAR IMAGES

[Xu, Lu](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

[Zhang, Hong](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Wang, Chao](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; University of Chinese Academy of Sciences, China [Wei, Sisi](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences; University of Chinese Academy of Sciences, China

MO2.R11.4: CROP HARVEST MONITORING USING POLARIMETRIC SAR PARAMETERS

[Hosseini, Mehdi](#), University of Maryland, United States [Becker-Reshef, Inbal](#), University of Maryland, United States [Justice, Chris](#), University of Maryland, United States

MO2.R11.5: A SATELLITE AGNOSTIC APPROACH TO QUANTIFYING HAIL DAMAGE SWATHS ACROSS THE CENTRAL UNITED STATES AND OTHER AGRICULTURAL REGIONS

[Bell, Jordan](#), NASA Marshall Space Flight Center, United States [Molthan, Andrew](#), NASA Marshall Space Flight Center, United States [Hain, Christopher](#), NASA Marshall Space Flight Center, United States [Meyer, Franz](#), University of Alaska Fairbanks, United States [Schultz, Christopher](#), NASA Marshall Space Flight Center, United States [Elmer, Nicholas](#), NASA Marshall Space Flight Center, United States

MO2.R11.6: WINTER WHEAT MAPPING FROM LANDSAT NDVI TIME SERIES DATA USING TIME-WEIGHTED DYNAMIC TIME WARPING AND PHENOLOGICAL RULES

[Qu, Chang](#), Peking University, China [Li, Peijun](#), Peking University, China

MO2.R11.7: CROPNET: DEEP SPATIAL-TEMPORAL-SPECTRAL FEATURE LEARNING NETWORK FOR CROP CLASSIFICATION FROM TIME-SERIES MULTI-SPECTRAL IMAGES

[Luo, Chang](#), Wuhan University, China [Meng, Shiyao](#), Wuhan University, China [Hu, Xin](#), Wuhan University, China [Wang, Xinyu](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China

MO2.R11.8: AN ADAPTIVE NEURO-FUZZY APPROACH FOR DECOMPOSITION OF MIXED PIXELS TO IMPROVE CROP AREA ESTIMATION USING SATELLITE IMAGES

[Dwivedi, Arun Kant](#), Indian Institute of Technology Roorkee, India [Roy, Sudip](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

MO2.R11.9: MYSENSE-WEBGIS: A GRAPHICAL MAP LAYERING-BASED DECISION SUPPORT TOOL FOR AGRICULTURE

[Adão, Telmo](#), University of Trás-os-Montes e Alto Douro, Portugal [Soares, Abel](#), University of Minho, Portugal [Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Guimarães, Nathalie](#), University of Trás-os-Montes e Alto Douro, Portugal [Pinho, Tatiana](#), University of Trás-os-Montes e Alto Douro, Portugal [Souza, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal [Morais, Raul](#), University of Trás-os-Montes e Alto Douro, Portugal [Peres, Emanuel](#), University of Trás-os-Montes e Alto Douro, Portugal

MO2.R11.10: WEED AND CROP DISCRIMINATION USING U-NET LEARNING

[Hashemi-Beni, Leila](#), North Carolina A&T State University, United States [Gebrehiwot, Asmamaw](#), North Carolina A&T State University, United States [Karimoddini, Ali](#), North Carolina A&T State University, United States [Shahbazi, Abolghasem](#), North Carolina A&T State University, United States

MO2.R11.11: RESEARCH OF METHANE EMISSIONS BASED ON BIOGEOCHEMICAL MODEL AND ACTIVE MICROWAVE MEASUREMENT

[Tan, Longfei](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Zhang, Yang](#), North China Power Engineering Co., Ltd. of China, China [Yang, Ting](#), West China School of Public Health and West China Fourth Hospital, Sichuan University, China [Xiao, Fanghong](#), University of Electronic Science and Technology of China, China

MO2.R12 - Urban Remote Sensing I

Monday, September 28, 07:30 - 09:30 • Room 12

MO2.R12.1: AN INTERFEROMETRIC W-BAND RADAR FOR LARGE STRUCTURES MONITORING

[Pieraccini, Massimiliano](#), University of Florence, Italy [Miccinesi, Lapo](#), University of Florence, Italy [Morini, Francesco](#), University of Florence, Italy

[MO2.R12.2: A NOVEL BUILDING RECONSTRUCTION FRAMEWORK USING SINGLE-VIEW REMOTE SENSING IMAGES BASED ON CONVOLUTIONAL NEURAL NETWORKS](#)

[Zhao, Chunhui](#), Harbin Engineering University, China [Zhang, Chi](#), Harbin Engineering University, China [Su, Nan](#), Harbin Engineering University, China [Yan, Yiming](#), Harbin Engineering University, China [Huang, Bowen](#), Jushri Technologies, INC, China

[MO2.R12.3: SENTINEL-1 INSAR ASSESSMENT OF PRESENT-DAY LAND SUBSIDENCE DUE TO EXPLOITATION OF GROUNDWATER RESOURCES IN CENTRAL MEXICO](#)

[Cigna, Francesca](#), Italian Space Agency (ASI), Italy [Tapete, Deodato](#), Italian Space Agency (ASI), Italy

[MO2.R12.4: DERIVING URBAN MASS CONCENTRATIONS USING TANDEM-X AND SENTINEL-2 DATA FOR THE ASSESSMENT OF MORPHOLOGICAL POLYCENTRICITY](#)

[Standfuß, Ines](#), German Aerospace Center, Germany [Geiß, Christian](#), German Aerospace Center, Germany [Kühnl, Marlene](#), German Aerospace Center, Germany [Wurm, Michael](#), German Aerospace Center, Germany [Siedentop, Stefan](#), Research Institute for Regional and Urban Development, Germany [Heider, Bastian](#), Research Institute for Regional and Urban Development, Germany [Taubenböck, Hannes](#), German Aerospace Center, Germany

[MO2.R12.5: COPERNICUS FOR URBAN RESILIENCE IN EUROPE: THE CURE PROJECT](#)

[Chrysoulakis, Nektarios](#), Foundation for Research and Technology Hellas (FORTH), Greece [Mitraka, Zina](#), Foundation for Research and Technology Hellas (FORTH), Greece [Marconcini, Mattia](#), German Aerospace Center (DLR), Germany [Ludlow, David](#), UWE, United Kingdom [Khan, Zaheer](#), UWE, United Kingdom [Holt Andersen, Birgitte](#), Apher, Denmark [Soukup, Tomas](#), GISAT, Czech Republic [Dohr, Mario](#), GEOVILLE, Austria [Gandini, Alessandra](#), TECNALIA, Spain [Kropp, Jürgen](#), PIK, Germany [Lauwaet, Dirk](#), VITO, Germany [Feigenwinter, Christian](#), UNIBAS, Germany

[MO2.R12.6: DEFORMATION PROFILE ANALYSIS USING UNIFORM MANIFOLD APPROXIMATION AND PROJECTION](#)

[Toma, Stefan-Adrian](#), Military Technical Academy, Romania [Sebacher, Bogdan](#), Military Technical Academy, Romania [Teleaga, Delia](#), Terrasigna, Romania [Focsa, Adrian](#), Military Technical Academy, Romania

[MO2.R12.7: A DYNAMIC END-TO-END FUSION FILTER FOR LOCAL CLIMATE ZONE CLASSIFICATION USING SAR AND MULTI-SPECTRUM REMOTE SENSING DATA](#)

[Feng, Pengming](#), China Aerospace Science and Technology Corporation, China [Lin, Youtian](#), Harbin Engineering University, China [He, Guangjun](#), China Aerospace Science and Technology Corporation, China [Guan, Jian](#), Harbin Engineering University, China [Wang, Jin](#), China Aerospace Science and Technology Corporation, China [Shi, Huifeng](#), China Aerospace Science and Technology Corporation, China

[MO2.R12.8: APPLICATION OF DINSAR TECHNIQUE TO HIGH COHERENCE SATELLITE IMAGES FOR STRATEGIC INFRASTRUCTURE MONITORING](#)

[De Corso, Tony](#), University of Sannio, Italy [Mignone, Luca](#), University of Sannio, Italy [Sebastianelli, Alessandro](#), University of Sannio, Italy [Del Rosso, Maria Pia](#), University of Sannio, Italy [Yost, Claire](#), Massachusetts Institute of Technology, United States [Ciampa, Elena](#), University of Sannio, Italy [Pecce, Marisa](#), University of Sannio, Italy [Sica, Stefania](#), University of Sannio, Italy [Ullo, Silvia Liberata](#), University of Sannio, Italy

[MO2.R12.9: ASSESSMENT OF URBAN BUILT-UP VOLUME USING GEOSPATIAL METHODS: A CASE STUDY OF BANGALORE](#)

[P.S. Prakash](#), Indian Institute of Technology Kharagpur, India [H.Aithal, Bharath](#), Indian Institute of Technology Kharagpur, India

[MO2.R12.10: ASSESSING LAND SUITABILITY FOR MANAGING URBAN GROWTH: AN APPLICATION OF GIS AND RS](#)

[Shah, Pooja B.](#), NIT Surat, India [Sheladiya, Kaushik P.](#), NIT Surat, India [Patel, Jaldeep](#), NIT Surat, India [Patel, Dr. Chetan R.](#), NIT Surat, India [Tailor, Dr. Ravin M.](#), NIT Surat, India

[MO2.R12.11: EXTENDED PATTERN OF URBAN SPRAWL ANALYSIS FROM REMOTE SENSING DATA IN ULAANBAATAR, MONGOLIA](#)

[Myagmartseren, Purevtseren](#), National University of Mongolia, Mongolia [Myagmarjav, Indra](#), Mongolian University of Life Sciences, Mongolia [Byambakhuu, Gantumur](#), National University of Mongolia, Mongolia [Enkhtuya, Nergui](#), National University of Mongolia, Mongolia

[Guganov, Baburila](#), Inner Mongolia Normal University, China

MO2.R13 - Recent Advances in GNSS Reflectometry Monday, September 28, 07:30 - 09:30 • Room 13

MO2.R13.1: SOIL MOISTURE AND FOREST BIOMASS RETRIEVAL ON A GLOBAL SCALE BY USING CYGNSS DATA AND ARTIFICIAL NEURAL NETWORKS

[Santi, Emanuele](#), National Research Council - Institute of Applied Physics, Italy [Pettinato, Simone](#), National Research Council - Institute of Applied Physics (IFAC - CNR), Italy [Paloscia, Simonetta](#), National Research Council - Institute of Applied Physics (IFAC - CNR), Italy [Clarizia, Maria Paola](#), Deimos Space UK Ltd., United Kingdom [Dente, Laura](#), University of Rome Tor Vergata, Italy [Guerriero, Leila](#), University of Rome Tor Vergata, Italy [Comite, Davide](#), University of Rome La Sapienza, Italy [Pierdicca, Nazzareno](#), University of Rome La Sapienza, Italy

MO2.R13.2: IMPROVEMENT OF CYGNSS LEVEL 1 CALIBRATION USING MODELING AND MEASUREMENTS OF OCEAN SURFACE MEAN SQUARE SLOPE

[Wang, Tianlin](#), University of Michigan, United States [Zavorotny, Valery](#), University of Colorado, United States [Johnson, Joel](#), The Ohio State University, United States [Yi, Yuchan](#), The Ohio State University, United States [Ruf, Christopher](#), University of Michigan, United States [Gleason, Scott](#), University Corporation for Atmospheric Research, United States [McKague, Darren](#), University of Michigan, United States [Hwang, Paul](#), Naval Research Laboratory, United States [Rogers, Erick](#), Naval Research Laboratory, United States [Chen, Shuyi](#), University of Washington, United States [Pan, Yulin](#), University of Washington, United States [Bakker, Thomas](#), University of Washington, United States

MO2.R13.3: SIMULATION STUDY OF CYGNSS OBSERVABILITY OF DYNAMIC INUNDATION EVENTS

[Downs, Brandi](#), The Ohio State University, United States [Loria, Eric](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States [Zavorotny, Valery](#), University of Colorado Boulder, United States [Zuffada, Cinzia](#), California Institute of Technology, United States

MO2.R13.4: INVESTIGATION OF COHERENT AND INCOHERENT SCATTERING FROM LAKES USING CYGNSS OBSERVATIONS

[Zavorotny, Valery](#), University of Colorado Boulder, United States [Loria, Eric](#), Ohio State University, United States [O'Brien, Andrew](#), Ohio State University, United States [Downs, Brandi](#), Ohio State University, United States [Zuffada, Cinzia](#), California Institute of Technology, United States

MO2.R13.5: AN ADAPTIVE INTEGRATION ALGORITHM FOR IMPROVED COHERENT REFLECTION MEASUREMENT IN GNSS-R INSTRUMENTS

[Loria, Eric](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States

MO2.R13.6: UNTANGLING THE GNSS-R COHERENT AND INCOHERENT COMPONENTS: EXPERIMENTAL EVIDENCES OVER THE OCEAN

[Munoz-Martin, Joan Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Onrubia, Raul](#), Universitat Politècnica de Catalunya (UPC), Spain [Pascual, Daniel](#), Universitat Politècnica de Catalunya (UPC), Spain [Park, Hyuk](#), Universitat Politècnica de Catalunya (UPC), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain [Rüdiger, Christopher](#), Monash University, Australia [Walker, Jeffrey](#), Monash University, Australia [Moneris, Alessandra](#), University of Melbourne, Australia

MO2.R13.7: VALIDATION OF SUPER-RESOLUTION GNSS-R USING AN AIRBORNE FIELD TRIAL

[Cheong, Joon Wayn](#), University of New South Wales Sydney, Australia [Kuthethoor, Prahalad](#), University of New South Wales Sydney, Australia [Dempster, Andrew G.](#), University of New South Wales Sydney, Australia

MO2.R13.8: DEVELOPMENT OF AN END-TO-END MISSION SIMULATOR FOR LAND

REMOTE SENSING WITH SIGNALS OF OPPORTUNITY

[Kim, Seho](#), Purdue University, United States [Garrison, James L.](#), Purdue University, United States

MO2.R13.9: IONOSPHERIC SCINTILLATION MODEL LIMITATIONS AND IMPACT IN GNSS-R MISSIONS

[Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain [Gonzalez-Casado, Guillermo](#), Universitat Politècnica de Catalunya (UPC), Spain [Juan, José Miguel](#), Universitat Politècnica de Catalunya (UPC), Spain [Park, Hyuk](#), Universitat Politècnica de Catalunya (UPC), Spain [Barbosa, José](#), RDA -Research and Development in Aerospace GmbH, Switzerland

MO2.R13.10: NOC GNSS-R GLOBAL OCEAN WIND SPEED AND SEA-ICE PRODUCTS USING DATA FROM THE TECHDEMOSAT-1 MISSION

[Foti, Giuseppe](#), National Oceanography Centre, United Kingdom [Hammond, Matthew](#), National Oceanography Centre, United Kingdom [Gommenginger, Christine](#), National Oceanography Centre, United Kingdom [Srokosz, Meric](#), National Oceanography Centre, United Kingdom [Unwin, Martin](#), Surrey Satellite Technology Ltd., United Kingdom [Rosello, Josep](#), European Space Agency, United Kingdom

MO2.R14 - Time Series Analysis Monday, September 28, 07:30 - 09:30 • Room 14

MO2.R14.1: GEONEX: A GEOSTATIONARY EARTH OBSERVATORY AT NASA EARTH EXCHANGE: EARTH MONITORING FROM OPERATIONAL GEOSTATIONARY SATELLITE SYSTEMS

[Nemani, Ramakrishna](#), NASA Ames Research Center, United States [Wang, Weile](#), ARC-CREST/NASA Ames Research Center, United States [Hashimoto, Hirofumi](#), ARC-CREST/NASA Ames Research Center, United States [Michaelis, Andrew](#), ARC-CREST/NASA Ames Research Center, United States [Vandal, Thomas](#), ARC-CREST/NASA Ames Research Center, United States [Lyapustin, Alexei](#), NASA Goddard Space Flight Center, United States [Zhang, Jia](#), Carnegie Mellon University, United States [Lee, Tsengdar](#), NASA/HQ, United States [Kalluri, Satya](#), NOAA, United States [Takenaka, Hideaki](#), Japan Aerospace Exploration Agency, Japan [Higuchi, Atsushi](#), Chiba University, Japan [Ichii, Kazuhito](#), Chiba University, Japan [Li, Shuang](#), Guiyang Education University, China [Yeom, Jong-Min](#), Korea Aerospace Research Institute, KARI, Korea (South)

MO2.R14.2: TEMPORAL CONSOLIDATION STRATEGY FOR GROUND BASED IMAGE DISPLACEMENT TIME SERIES

[Marsy, Guilhem](#), Université Savoie Mont Blanc, France [Vernier, Flavien](#), Université Savoie Mont Blanc, France [Bodin, Xavier](#), CNRS, France [Castaings, William](#), TENEVIA, France [Trouwé, Emmanuel](#), Université Savoie Mont Blanc, France

MO2.R14.3: PREDICTION OF PLANT GROWTH BASED ON STATISTICAL MEASUREMENTS USING SATELLITE IMAGE TIME SERIES

[Hachicha, Marwa](#), Advanced Technologies for Image and Signal Processing, Tunisia [Louati, Mahdi](#), National School of Electronics and Telecommunications of Sfax, Tunisia [Kallel, Abdelaziz](#), Digital Research Center of Sfax, Tunisia [Gastellu-Etchegorry, Jean-Philippe](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO; Toulouse University (CNRS, CNES, IRD, Paul Sabatier University), France

MO2.R14.4: CLASSIFICATION OF WHEAT AND BARLEY FIELDS USING SENTINEL-1 BACKSCATTER

[Pfeil, Isabella](#), TU Wien, Austria [Reuß, Felix](#), TU Wien, Austria [Vreugdenhil, Mariette](#), TU Wien, Austria [Navacchi, Claudio](#), TU Wien, Austria [Wagner, Wolfgang](#), TU Wien, Austria

MO2.R14.5: COMPARISON BETWEEN MULTITEMPORAL GRAPH BASED CLASSICAL LEARNING AND LSTM MODEL CLASSIFICATIONS FOR SITS ANALYSIS

[Chaabane, Ferdaous](#), SUP'COM, Carthage University, Tunisia [Réjichi, Safa](#), SUP'COM, Carthage University, Tunisia [Tupin, Florence](#), Telecom ParisTech, France

MO2.R14.6: FUZZY NEURAL NETWORK-BASED ASSESSMENT OF ROAD TRAFFIC SITUATIONS USING EXTRACTED INFORMATION OBTAINED FROM OPTICAL HIGH-RESOLUTION SATELLITE REMOTE SENSING IMAGES

[Ma, Xiaoyang](#), Harbin Institute of Technology, China [Hao, Xiaolong](#), Beijing Tracking and

Communication Technology Research Institute, China [Chen, Hao](#), Harbin Institute of Technology, China

MO2.R14.7: PHOTOVOLTAIC PANEL CONSTRUCTION CHANGE MONITORING BASED ON LSTM MODELS

[Chen, Liuliang](#), Shanghai Jiao Tong University, China [Guo, Weiwei](#), Tongji University, China [Liu, Zeyu](#), Shanghai Jiao Tong University, China [Zhang, Zenghui](#), Shanghai Jiao Tong University, China [Yu, Wenxian](#), Shanghai Jiao Tong University, China

MO2.R14.8: UNCERTAINTIES IN VIIRS NIGHTTIME LIGHT TIME SERIES ANALYSIS

[Wang, Zhuosen](#), University of Maryland College Park/NASA GSFC, United States [Román, Miguel](#), Universities Space Research Association, United States [Kalb, Virginia](#), NASA Goddard Space Flight Center, United States [Shrestha, Ranjay](#), Science Systems and Applications, Inc., United States [Stokes, Eleanor](#), University of Maryland College Park/NASA GSFC, United States [Paynter, Ian](#), Universities Space Research Association/NASA GSFC, United States

MO2.R14.9: TEMPORAL AND SPATIAL CHANGE PATTERN RECOGNITION BY MEANS OF SENTINEL-1 SAR TIME-SERIES

[Che, Meiqin](#), University of Pavia, Italy [Gamba, Paolo](#), University of Pavia, Italy

MO2.R14.10: VISION-BASED SCATTERING KEY-FRAME EXTRACTION FOR VIDEOSAR SUMMARIZATION

[Zhang, Ying](#), Nanjing University of Aeronautics and Astronautics, China [Mou, Lichao](#), German Aerospace Center, Germany [Zhu, Daiyin](#), Nanjing University of Aeronautics and Astronautics, China [Zhu, Xiao Xiang](#), German Aerospace Center, Germany

MO2.R14.11: ASSESSING DIFFERENTIATION BETWEEN PASTURE AND CROPLANDS USING REMOTE SENSING IMAGE TIME SERIES METRICS

[Rodrigues, Marcos](#), INPE, Brazil [Bendini, Hugo](#), INPE, Brazil [Soareas, Anderson](#), INPE, Brazil [Körting, Thales](#), INPE, Brazil [Fonseca, Leila](#), INPE, Brazil

MO2.R15 - POLSAR / POLINSAR: Monday, September 28, 07:30 - 09:30 • Room 15 Applications & Analysis

MO2.R15.1: FOUR-COMPONENT DECOMPOSITION METHOD OF POLARIMETRIC SAR INTERFEROMETRY USING REFINED VOLUME SCATTERING MODELS

[Wang, Yu](#), Institute of Electronics, Chinese Academy of Sciences, Germany [Yu, Weidong](#), Institute of Electronics, Chinese Academy of Sciences, China [Wang, Chunle](#), Institute of Electronics, Chinese Academy of Sciences, China [Liu, Xiuqing](#), Institute of Electronics, Chinese Academy of Sciences, China

MO2.R15.2: EVALUATION OF A S1 FOR BUILDING DAMAGE MAPPING BASED ON TOUZI DECOMPOSITION

[Pang, Lei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Fengli](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Guojun](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liu, Na](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Lu](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Shao, Yun](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

MO2.R15.3: X-BAND POLINSAR VEGETATION CANOPY HEIGHT INVERSION STRATEGY BASED ON FREQUENCY SEGMENTATION

[Tang, Fanyi](#), Xidian University, China [Xie, Jinwei](#), Nanjing Research Institute of Electronic Technology, China [Suo, Zhiyong](#), Xidian University, China [Li, Han](#), Xidian University, China [Li, Zhenfang](#), Xidian University, China

MO2.R15.4: DISCUSSION ON BUILDING ORIENTATION ESTIMATION USING POLARIMETRIC SYNTHETIC APERTURE RADAR DATA

[Shang, Fang](#), University of Electro-Communications, Japan

MO2.R15.5: COMPARISON OF MACHINE LEARNING METHODS FOR PREDICTING QUAD-POLARIMETRIC PARAMETERS FROM DUAL-POLARIMETRIC SAR DATA

[Blix, Katalin](#), UiT The Arctic University of Norway, Norway [M. Espeseth, Martine](#), UiT The

Arctic University of Norway, Norway [Eltoft, Torbjørn](#), UiT The Arctic University of Norway, Norway

[MO2.R15.6: MULTIPLICATIVE PROCESSING FOR POLARIMETRIC SAR INTERFEROMETRY](#)

[Kasilingam, Dayalan](#), University of Massachusetts Dartmouth, United States

[MO2.R15.7: A MODIFIED SIFT ALGORITHM FOR POLSAR IMAGE REGISTRATION](#)

[Wang, Hongmiao](#), Tsinghua University, China [Wang, Jing](#), Science and Technology on Information System Engineering Laboratory, China [Yin, Junjun](#), University of Science and Technology Beijing, China [Yang, Jian](#), Tsinghua University, China

[MO2.R15.8: DEEP LEARNING BASED CLASSIFICATION USING SEMANTIC INFORMATION FOR POLSAR IMAGE](#)

[Zhang, Lu](#), Xi'an University of Posts and Telecommunication, China [Xie, Wen](#), Xi'an University of Posts and Telecommunications, China [Zhao, Feng](#), Xi'an University of Posts and Telecommunication, China [Liu, Hanqiang](#), Shaanxi Normal University, China [Duan, Yiping](#), Tsinghua University, China

[MO2.R15.9: POLSAR IMAGE CLASSIFICATION VIA COMPLEX-VALUED MULTI-SCALE CONVOLUTIONAL NEURAL NETWORK](#)

[Zhang, Lamei](#), Harbin Institute of Technology, China [Zhang, Siyu](#), Harbin Institute of Technology, China [Dong, Hongwei](#), Harbin Institute of Technology, China [Lu, Da](#), AVIC Leihua Electric Technology Research Institute, China

[MO2.R15.10: COMPARISON STUDY OF MULTITEMPORAL POLSAR CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS](#)

[Tao, Chen-Song](#), National University of Defense Technology, China [Chen, Si-Wei](#), National University of Defense Technology, China [Xiao, Shun-Ping](#), National University of Defense Technology, China

[MO2.R15.11: A NOVEL MODEL-BASED POLARIMETRIC SAR DATA DECOMPOSITION APPROACH AND ITS APPLICATIONS](#)

[Wang, Zezhong](#), Peking University, China [Zeng, Qiming](#), Peking University, China

MO2.R16 - Image and Data Fusion I

Monday, September 28, 07:30 - 09:30 • Room 16

[MO2.R16.1: INTEGRATING TIME-SERIES AND HIGH-SPATIAL REMOTE SENSING DATA BASED ON MULTILEVEL DECISION FUSION](#)

[Guan, Xudong](#), Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China [Huang, Chong](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Liu, Gaohuan](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Liu, Qingsheng](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China

[MO2.R16.2: PAN-SHARPENING WITH A CNN-BASED TWO STAGE RATIO ENHANCEMENT METHOD](#)

[Zhou, Huanyu](#), Beihang University, China [Liu, Qingjie](#), Beihang University, China [Xu, Qizhi](#), Beijing University of Chemical Technology, China [Wang, Yunhong](#), Beihang University, China

[MO2.R16.3: A NO-REFERENCE SUPER RESOLUTION FOR SATELLITE IMAGE QUALITY ENHANCEMENT FOR KOMPSAT-3](#)

[Choi, Yeonju](#), Korea Aerospace Research Institute, Korea (South) [Kim, Yongwoo](#), Sangmyung University, Korea (South)

[MO2.R16.4: MULTISCALE INFRARED AND VISIBLE IMAGE FUSION BASED ON PHASE CONGRUENCY AND SALIENCY](#)

[Chen, Jun](#), China University of Geosciences, China [Wu, Kangle](#), China University of Geosciences, China [Luo, Linbo](#), China University of Geosciences, China [Chen, Xiaoqiang](#), China University of Geosciences, China [Gu, Yue](#), China University of Geosciences, China [Tian, Xin](#), Wuhan University, China

[MO2.R16.5: AUTOMATIC FINE ALIGNMENT OF MULTISPECTRAL AND PANCHROMATIC](#)

IMAGES

[Arienzo, Alberto](#), University of Florence, Italy [Alparone, Luciano](#), University of Florence, Italy
[Aiazzi, Bruno](#), CNR - National Research Council, Italy [Garzelli, Andrea](#), University of Siena,
 Italy

MO2.R16.6: SPATIO-TEMPORAL FUSION OF NIGHT-TIME LIGHT IMAGES WITH DEEP LEARNING

[Liu, Peng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Shan, Wei](#), Yanshan University, China [Li, Lei](#), University of Chinese Academy of Sciences,
 China [Chen, Lajiao](#), Aerospace Information Research Institute, Chinese Academy of Sciences,
 China [Ma, Yan](#), Aerospace Information Research Institute, Chinese Academy of Sciences,
 China [Zhao, Lingjun](#), Aerospace Information Research Institute, Chinese Academy of
 Sciences, China

MO2.R16.7: EVALUATION OF SPATIOTEMPORAL FUSION MODELS IN LAND SURFACE TEMPERATURE USING POLAR-ORBITING AND GEOSTATIONARY SATELLITE DATA

[Li, Yitao](#), Chinese Academy of Sciences, China [Wu, Hua](#), Chinese Academy of Sciences, China
[Li, Zhao-Liang](#), Institute of Agricultural Resources and Regional Planning, China [Duan, Sibao](#),
 Institute of Agricultural Resources and Regional Planning, China [Ni, Li](#), Chinese Academy of
 Sciences, China

MO2.R16.8: OPTIMIZATION OF DSM PRODUCT GENERATION OF ZY-3 SATELLITE IMAGES BASED ON IMAGE FREQUENCY-DOMAIN FUSION AND FILTERING

[Peng, Shuying](#), University of Electronic Science and Technology of China, China [Huang, Fang](#),
 University of Electronic Science and Technology of China, China [Lu, Jun](#), University of
 Electronic Science and Technology of China, China [Tie, Bo](#), University of Electronic Science
 and Technology of China, China [Chen, Yinjie](#), University of Electronic Science and Technology
 of China, China

MO2.R16.9: INTERPOLATION OF GEOCHEMICAL DATA WITH ASTER IMAGES BASED ON ALEXNET CONVOLUTION NEURAL NETWORK

[Bai, Shi](#), China University of Geosciences (Beijing), China [Zhao, Jie](#), China University of
 Geosciences (Beijing), China

MO2.R16.10: SHIP DETECTION ON SINGLE-BAND GRAYSCALE IMAGERY USING DEEP LEARNING AND AIS SIGNAL MATCHING USING NON-RIGID TRANSFORMATIONS

[Talon, Patrick](#), Deimos Space UK Ltd., United Kingdom [Bravo Pérez-Villar, Juan Ignacio](#),
 Deimos Space UK Ltd., United Kingdom [Hadland, Anneley](#), ESRI UK, United Kingdom
[Wyniawskyj, Nina Sofia](#), Deimos Space UK Ltd., United Kingdom [Petit, David](#), Deimos Space
 UK Ltd., United Kingdom [Wilson, Mark](#), BMT SCD, United Kingdom

MO2.R16.11: ADAPTIVE-WEIGHT FUSION NETWORK FOR LAND COVER CLASSIFICATION USING HETEROGENEOUS REMOTE SENSING IMAGES

[Li, Xiao](#), National University of Defense Technology, China [Lei, Lin](#), National University of
 Defense Technology, China [Sun, Yuli](#), National University of Defense Technology, China
[Kuang, Gangyao](#), National University of Defense Technology, China

MO2.R17 - Detection of Small Static and Moving Objects Monday, September 28, 07:30 - 09:30 • Room 17

MO2.R17.1: VEHICLE DETECTION AND COUNTING FROM VHR SATELLITE IMAGES: EFFORTS AND OPEN ISSUES

[Froidevaux, Alice](#), QuantCube Technology, France [Julier, Andréa](#), QuantCube Technology,
 France [Lifschitz, Agustin](#), QuantCube Technology, France [Pham, Minh-Tan](#), Université
 Bretagne Sud - IRISA, France [Dambreville, Romain](#), Université Bretagne Sud - IRISA, France
[Lefèvre, Sébastien](#), Université Bretagne Sud - IRISA, France [Lassalle, Pierre](#), Centre National
 d'Etudes Spatiales (CNES), France [Huynh, Thanh-Long](#), QuantCube Technology, France

MO2.R17.2: SMALL OBJECT DETECTION FROM REMOTE SENSING IMAGES WITH THE HELP OF OBJECT-FOCUSED SUPER-RESOLUTION USING WASSERSTEIN GANS

[Courtrai, Luc](#), Univ. Bretagne Sud-IRISA, France [Pham, Minh-Tan](#), Univ. Bretagne Sud-IRISA,
 France [Friguet, Chloé](#), Univ. Bretagne Sud-IRISA, France [Lefèvre, Sébastien](#), Univ. Bretagne
 Sud-IRISA, France

MO2.R17.3: AIRPLANE RECOGNITION FROM REMOTE SENSING IMAGES WITH DEEP CONVOLUTIONAL NEURAL NETWORK

[Chen, Fen](#), University of Electronic Science and Technology of China, China [Ren, Ruilong](#), University of Electronic Science and Technology of China, China [Xu, Wenbo](#), University of Electronic Science and Technology of China, China [Van de Voorde, Tim](#), Ghent University, Belgium

MO2.R17.4: VEHSAT: A LARGE-SCALE DATASET FOR VEHICLE DETECTION IN SATELLITE IMAGES

[Drouyer, Sebastien](#), ENS Paris Saclay, France

MO2.R17.5: SMALL OBJECT DETECTION IN OPTICAL REMOTE SENSING VIDEO WITH MOTION GUIDED R-CNN

[Feng, Jie](#), Xidian University, China [Liang, Yuping](#), Xidian University, China [Ye, Zhanwei](#), Xidian University, China [Wu, Xiande](#), Xidian University, China [Zeng, Dening](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Tang, Xu](#), Xidian University, China

MO2.R17.6: CONCURRENT SEGMENTATION AND OBJECT DETECTION CNNs FOR AIRCRAFT DETECTION AND IDENTIFICATION IN SATELLITE IMAGES

[Grosgeorge, Damien](#), Earthcube, France [Arbelot, Maxime](#), Earthcube, France [Goupilleau, Alex](#), Earthcube, France [Ceillier, Tugdual](#), Earthcube, France [Allieux, Renaud](#), Earthcube, France

MO2.R17.7: GEOSPATIAL OBJECT DETECTION WITH SINGLE SHOT ANCHOR-FREE NETWORK

[Guo, Yiyu](#), Tongji University, China [Ji, Jinsheng](#), Shanghai Jiao Tong University, China [Lu, Xiankai](#), Inception Institute of Artificial Intelligence, United Arab Emirates [Xie, Huan](#), Tongji University, China [Tong, Xiaohua](#), Tongji University, China

MO2.R17.8: IMPROVING SAR TARGET RECOGNITION WITH MULTI-TASK LEARNING

[Du, Wenrui](#), Beijing University of Chemical Technology, China [Zhang, Fan](#), Beijing University of Chemical Technology, China [Ma, Fei](#), Beijing University of Chemical Technology, China [Yin, Qiang](#), Beijing University of Chemical Technology, China [Zhou, Yongsheng](#), Beijing University of Chemical Technology, China

MO2.R17.9: VEHICLE DETECTION WITH PARTIAL ANCHORS IN REMOTE SENSING IMAGES

[Ma, Fuyan](#), Hunan University, China [Sun, Bin](#), Hunan University, China [Li, Shutao](#), Hunan University, China [Sun, Jun](#), Fujitsu Research and Develop Center, China

MO2.R17.10: WEAK TARGET DETECTION IN HIGH-RESOLUTION REMOTE SENSING IMAGES BY COMBINING SUPER-RESOLUTION AND DEFORMABLE FPN

[Bai, Yang](#), Harbin Institute of Technology, China [Zou, Tongyuan](#), Space Star Technology Co., Ltd. (SST), China [Ye, Shujia](#), Harbin Institute of Technology, China [Qin, Zhenqiang](#), Harbin Institute of Technology, China [Gao, Guoming](#), Harbin Institute of Technology, China [Gu, Yanfeng](#), Harbin Institute of Technology, China

MO2.R17.11: VESSEL TARGET MONITORING WITH BISTATIC COMPACT HF SURFACE WAVE RADAR

[Ji, Yonggang](#), First Institute of Oceanography, Ministry of Natural Resources, China [Zhang, Jie](#), First Institute of Oceanography, Ministry of Natural Resources, China [Wang, Yiming](#), First Institute of Oceanography, Ministry of Natural Resources, China [Meng, Junmin](#), First Institute of Oceanography, Ministry of Natural Resources, China [Yu, Changjun](#), Harbin Institute of Technology at Weihai, China [Li, Ming](#), Ocean University of China, China [Sun, Weifeng](#), China University of Petroleum, China

MO2.R18 - Change Detection in SAR Images Monday, September 28, 07:30 - 09:30 • Room 18

MO2.R18.1: SMALL OBJECT CHANGE DETECTION BASED ON MULTITASK SIAMESE NETWORK

[Sharma, Shreya](#), NEC Corporation, Japan [Kaneko, Eiji](#), NEC Corporation, Japan [Toda, Masato](#), NEC Corporation, Japan

MO2.R18.2: EFFICIENT GPU-BASED LOCAL HISTOGRAM ANALYZER FOR CHANGE DETECTION IN SATELLITE SAR IMAGES

[Gocho, Masato](#), Mitsubishi Electric Corporation, Japan [Arii, Motofumi](#), Mitsubishi Electric Corporation, Japan

MO2.R18.3: POTENTIAL OF FOREST MONITORING WITH MULTI-TEMPORAL TANDEM-X HEIGHT MODELS

[Schlund, Michael](#), University of Göttingen, Germany [Kukunda, Collins B.](#), University of Göttingen, Germany [Baumann, Sabine](#), German Aerospace Center, Germany [Wessel, Birgit](#), German Aerospace Center, Germany [Kiefl, Nadine](#), Airbus Defence and Space, Germany [von Poncet, Felicitas](#), Airbus Defence and Space, Germany

MO2.R18.4: SAR IMAGE CHANGE DETECTION METHOD VIA A PYRAMID POOLING CONVOLUTIONAL NEURAL NETWORK

[Wang, Rongfang](#), Xidian University, China [Ding, Fan](#), Xidian University, China [Chen, Jia-Wei](#), Xidian University, China [Liu, Bo](#), Xidian University, China [Zhang, Jie](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China

MO2.R18.5: A COMPOUND POLARIMETRIC-TEXTURAL APPROACH FOR UNSUPERVISED CHANGE DETECTION IN MULTI-TEMPORAL FULL-POL SAR IMAGERY

[Pirrone, Davide](#), Université Savoie Mont Blanc, France [Pham, Minh-Tan](#), Université Bretagne-Sud, France

MO2.R18.6: PARAMETER OPTIMIZATION FOR DETECTING SEISMIC GROUND DEFORMATION FROM AIRBORNE SAR IMAGES

[Ito, Koichi](#), Tohoku University, Japan [Imai, Haruki](#), Tohoku University, Japan [Aoki, Takafumi](#), Tohoku University, Japan [Uemoto, Junpei](#), National Institute of Information and Communications Technology, Japan

MO2.R18.7: VOLCANIC ERUPTION MONITORING USING COHERENCE CHANGE DETECTION MATRIX

[Le, Thu Trang](#), Clermont Auvergne University, France [Froger, Jean-Luc](#), Clermont Auvergne University, France [Baghdadi, Nicolas](#), University of Montpellier, France [Ho Tong Minh, Dinh](#), University of Montpellier, France

MO2.R18.8: UNSUPERVISED AUTOMATIC TARGET DETECTION FOR MULTITEMPORAL SAR IMAGES BASED ON ADAPTIVE K-MEANS ALGORITHM

[Campos, Alexandre](#), Aeronautics Institute of Technology, Brazil [Molin Jr., Ricardo](#), Aeronautics Institute of Technology, Brazil [Vu, Viet](#), Blekinge Institute of Technology, Sweden [Pettersson, Mats](#), Blekinge Institute of Technology, Sweden [Machado, Renato](#), Aeronautics Institute of Technology, Brazil

MO2.R18.9: BIPARTITE RESIDUAL NETWORK FOR CHANGE DETECTION IN HETEROGENEOUS OPTICAL AND RADAR IMAGES

[Zhang, Haocheng](#), Nanjing University of Science and Technology, China [Liu, Jia](#), Nanjing University of Science and Technology, China [Xiao, Liang](#), Nanjing University of Science and Technology, China

MO2.R18.10: CHANGE DETECTION OF POLARIMETRIC SAR IMAGES USING MINKOWSKI LOG-RATIO DISTANCE

[Chen, Shuailin](#), Wuhan University, China [Yang, Xiangli](#), Wuhan University, China [Zou, Tongyuan](#), Space Star Technology Co., Ltd. (SST), China [Peng, Dong](#), Wuhan University, China [Yang, Wen](#), Wuhan University, China [Li, Heng-Chao](#), Southwest Jiaotong University, China

MO2.R19 - Electromagnetic Scattering

Monday, September 28, 07:30 - 09:30 • Room 19

MO2.R19.1: RESEARCH ON COMPOSITE ELECTROMAGNETIC SCATTERING COMPUTATION OF SEA SURFACE AND SHIP TARGET

[Guo, Yuhua](#), Beijing Institute of Satellite Information Engineering, China [Liu, Jiachuan](#), China Academy of Space Technology, China [Shi, Huifeng](#), Beijing Institute of Satellite Information Engineering, China [Tian, Luyun](#), Beijing Institute of Satellite Information Engineering, China

MO2.R19.2: SIMULATION OF MICROWAVE BACKSCATTERING FROM SEA SURFACE USING AN IMPROVED TWO-SCALE MODEL

<p>Zheng, Honglei, China University of Petroleum (East China), China Zhang, Jie, China University of Petroleum (East China), China Khenchaf, Ali, ENSTA Bretagne, France Zhang, Yanmin, Ocean University of China, China Wang, Yunhua, Ocean University of China, China</p> <p>MO2.R19.3: POLARIMETRIC TWO-SCALE MODEL FOR THE EVALUATION OF BISTATIC SCATTERING FROM ANISOTROPIC SEA SURFACES</p> <p>Di Martino, Gerardo, University of Naples Federico II, Italy Di Simone, Alessio, University of Naples Federico II, Italy Iodice, Antonio, University of Naples Federico II, Italy Riccio, Daniele, University of Naples Federico II, Italy</p> <p>MO2.R19.4: EFFECTS OF ROUGHNESS SCALE ON OCEAN RADAR SCATTERING USING NUMERICAL SIMULATIONS</p> <p>Du, Yanlei, Tsinghua University, China Yin, Junjun, University of Science and Technology Beijing, China Tan, Shurun, University of Illinois at Urbana-Champaign, United States Yang, Jian, Tsinghua University, China</p> <p>MO2.R19.5: MODELING TEMPORAL DECORRELATION AT X-BAND BY COMBINING TANDEM-X AND PAZ INSAR DATA</p> <p>Sica, Francescopaolo, German Aerospace Center (DLR), Germany Bretzke, Sofie, German Aerospace Center (DLR), Germany Pulella, Andrea, German Aerospace Center (DLR), Germany Martone, Michele, German Aerospace Center (DLR), Germany Bueso Bello, José Luis, German Aerospace Center (DLR), Germany González Bonilla, María José, Instituto Nacional de Técnica Aeroespacial (INTA), Spain Rizzoli, Paola, German Aerospace Center (DLR), Germany</p> <p>MO2.R19.6: EVALUATION OF LORA FOR DATA RETRIEVAL OF OCEAN MONITORING SENSORS WITH LEO SATELLITES</p> <p>Fernandez, Lara, Universitat Politècnica de Catalunya (UPC), Spain Ruiz-de-Azua, Joan A., Universitat Politècnica de Catalunya (UPC), Spain Calveras, Anna, Universitat Politècnica de Catalunya (UPC), Spain Camps, Adriano, Universitat Politècnica de Catalunya (UPC), Spain</p> <p>MO2.R19.7: A PHYSICAL PATCH MODEL FOR GNSS-R LAND APPLICATIONS WITH TOPOGRAPHY EFFECTS AND DDM SIMULATIONS</p> <p>Xu, Haokui, University of Michigan, United States Zhu, Jiyue, University of Michigan, United States Tsang, Leung, University of Michigan, United States Kim, Seungbum, NASA Jet Propulsion Laboratory, United States Nghiem, Son V., NASA Jet Propulsion Laboratory, United States</p> <p>MO2.R19.8: ELECTROMAGNETIC SCATTERING COMPUTATION OF A SNOW LAYER OVER ROUGH SURFACE USING SSWAP-SD TECHNIQUE</p> <p>Zaky, Mostafa, University of Michigan, United States Sarabandi, Kamal, University of Michigan, United States</p> <p>MO2.R19.9: IMPROVED DETECTION TECHNIQUES FOR NEW MILLIMETER WAVE AUTOMOTIVE RADARS</p> <p>Alaqeel, Abdulrahman, University of Michigan, Ann Arbor, United States Nashashibi, Adib, University of Michigan, Ann Arbor, United States Sarabandi, Kamal, University of Michigan, Ann Arbor, United States Shaman, Hussein, King Abdulaziz City for Science and Technology, Saudi Arabia</p> <p>MO2.R19.10: NON CONVEX OPERATORS FOR ELECTROMAGNETIC GEOSOUNDING NOISE</p> <p>Hidalgo-Silva, Hugo, CICESE, Mexico Gomez-Trevino, Enrique, CICESE, Mexico</p> <p>MO2.R19.11: SOLAR ACTIVITY IS ONE OF TRIGGERS OF EARTHQUAKES WITH MAGNITUDES LESS THAN 6</p> <p>Nishii, Ryuei, Nagasaki University, Japan Qin, Pan, Dalian University of Technology, China Kikuyama, Ryosuke, Mazda Motor Company, Japan</p> <p>MO2.R19.12: SCATTERING MECHANISM OF LARGE-FOOTPRINT FULL-WAVEFORM LIDAR OVER MOUNTAINOUS FOREST AREAS</p> <p>Yang, Xuebo, Aerospace Information Research Institute, Chinese Academy of Sciences, China Wang, Cheng, Aerospace Information Research Institute, Chinese Academy of Sciences, China Xi, Xiaohuan, Aerospace Information Research Institute, Chinese Academy of Sciences, China Zhou, Guoqing, Guilin University of Technology, China</p>	
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TU1.R1 - Land Use Applications II Tuesday, September 29, 05:00 - 07:00 • Room 1

TU1.R1.1: ELASTIC MAPPING THROUGH THE COPERNICUS GLOBAL LAND COVER LAYERS

[Smets, Bruno](#), VITO NV, Belgium [Souverijns, Niels](#), VITO, Belgium [Jaffrain, Gabriel](#), IGN-FI, France [Buchhorn, Marcel](#), VITO NV, Belgium [Moiret, Adrien](#), IGN-FI, France [Quang, An Vo](#), IGN-FI, France [Lesiv, Myroslava](#), IIASA, Austria [Tsendbazar, Nandin-Erdene](#), Wageningen University, Netherlands

TU1.R1.2: MODELLING TERRESTRIAL TORTOISES RESPONSE TO FIRE EVENTS

[Duarte, Lia](#), Faculty of Sciences, University of Porto, Portugal [Santos, Xavier](#), CIBIO/InBIO (Centro de Investigação em Biodiversidade e Recursos Genéticos da Universidade do Porto), Portugal [Teodoro, Ana Cláudia](#), Faculty of Sciences, University of Porto, Portugal [Sillero, Neftali](#), CICGE: Centro de Investigação em Ciências Geo-Espaciais, Portugal

TU1.R1.3: SENTINEL-2 MULTI-TEMPORAL DATA FOR RICE CROP CLASSIFICATION IN NEPAL

[Baidar, Tina](#), University Jaume I, Spain [Fernandez-Beltran, Ruben](#), University Jaume I, Spain [Pla, Filiberto](#), University Jaume I, Spain

TU1.R1.4: FIRE OCCURRENCE IN THE BRAZILIAN SAVANNA CONSERVATION UNITS AND THEIR BUFFER ZONES

[Hoffmann, Tânia Beatriz](#), National Institute for Space Research, Brazil [Dutra, Andeise](#), National Institute for Space Research, Brazil [Shimabukuro, Yosio](#), National Institute for Space Research, Brazil [Araí, Egidio](#), National Institute for Space Research, Brazil [Cassol, Henrique Luis](#), National Institute for Space Research, Brazil [Di Girolamo Neto, Cesare](#), National Institute for Space Research, Brazil [Duarte, Valdete](#), National Institute for Space Research, Brazil

TU1.R1.5: COMPARISON OF SPATIAL MODELLING APPROACHES TO PREDICT URBAN GROWTH OF LUCKNOW CITY, INDIA

[Shukla, Anugya](#), Indian Institute of Technology Roorkee, India [Jain, Kamal](#), Indian Institute of Technology Roorkee, India

TU1.R1.6: INTEGRATED PLATFORM FOR ECOSYSTEMS MONITORING BASED ON REMOTE AND IN SITU MEASUREMENTS

[Sacaleanu, Dragos Ioan](#), University Politehnica of Bucharest, Romania [Adamescu, Mihai](#), University of Bucharest, Romania [Faur, Daniela](#), University Politehnica of Bucharest, Romania [Cazacu, Constantin](#), University of Bucharest, Romania [Florea, Bogdan Cristian](#), University Politehnica of Bucharest, Romania [Griparis, Andreea](#), University Politehnica of Bucharest, Romania [Racoviceanu, Tudor](#), University of Bucharest, Romania [Giuca, Relu Constantin](#), University of Bucharest, Romania

TU1.R1.7: FRACTAL CHARACTERISTICS AND EVOLUTION OF URBAN LAND-USE: A CASE STUDY IN THE SHENZHEN CITY (1988-2015)

[Cheng, Luxiao](#), China University of Geosciences, China [Wang, Lizhe](#), China University of Geosciences, China [Feng, Ruyi](#), China University of Geosciences, China

TU1.R1.8: LAND USE AND LAND COVER CHANGE OF GHANA

[Hou, Ankai](#), University of Electronic Science and Technology of China, China [Samuel, Abrado Blankson](#), University of Electronic Science and Technology of China, China [Li, Mujie](#), University of Electronic Science and Technology of China, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China [Xia, Jun](#), University of Electronic Science and Technology of China, China [Zhang, Xiang](#), Wuhan University, China [Zhou, Guoqing](#), Guilin University of Technology, China

TU1.R1.9: CLASSIFICATION OF WIDE-AREA SAR MOSAICS: DEEP LEARNING APPROACH FOR CORINE BASED MAPPING OF FINLAND USING MULTITEMPORAL SENTINEL-1 DATA

[Antropov, Oleg](#), VTT Technical Research Centre of Finland, Finland [Rauste, Yrjö](#), VTT Technical Research Centre of Finland, Finland [Scepanovic, Sanjaana](#), ICEYE, United Kingdom [Lönnqvist, Anne](#), VTT Technical Research Centre of Finland, Finland [Ignatenko, Vladimir](#), ICEYE Oy, Finland [Praks, Jaan](#), Aalto University, Finland

TU1.R1.10: INTEGRATION OF GENETIC ALGORITHM AND AGENT BASED MODEL TO

VISUALIZE NEAR REALISTIC SUSTAINABLE URBAN GROWTH: A COMPARATIVE STUDY

[M.C., Chandan](#), Indian Institute of Technology Kharagpur, India [J.S., Aadithyaa](#), Indian Institute of Technology Kharagpur, India [H.A., Bharath](#), Indian Institute of Technology Kharagpur, India

TU1.R1.11: LAND USE AND LAND COVER MAPPING USING FRACTION IMAGES DERIVED FROM ANNUAL VIIRS-NPP DATASET

[Shimabukuro, Yosio Edemir](#), National Institute for Space Research, Brazil [Arai, Egidio](#), National Institute for Space Research, Brazil [Dutra, Andeise Cerqueira](#), National Institute for Space Research, Brazil [Duarte, Valdete](#), National Institute for Space Research, Brazil

TU1.R2 - Monitoring and Damage Tuesday, September 29, 05:00 - 07:00 • Room 2
Assessment of Natural Disasters I

TU1.R2.1: INCREASING SMALL UNMANNED AERIAL SYSTEM REAL-TIME AUTONOMY

[Carney, Richard](#), University of Hawaii, United States [Chyba, Monique](#), University of Hawaii, United States [Gray, Chris](#), University of Hawaii, United States [Pereda, Julian](#), University of Hawaii, United States [Swantek, Elizabeth](#), University of Hawaii, United States [Tong, Alan](#), University of Hawaii, United States [Baek, Kyungim](#), University of Hawaii, United States [Koch, William](#), University of Hawaii, United States [Poisson, Guylaine](#), University of Hawaii, United States [Perroy, Ryan](#), University of Hawaii, Hilo, United States [Sullivan, Timothy](#), University of Hawaii, Hilo, United States [Tommy, Charlie](#), University of Hawaii, Hilo, United States [Lay, Norman](#), NASA, United States [Oudrihi, Kamal](#), NASA, United States

TU1.R2.2: UNMANNED AERIAL VEHICLE-BASED AUTOMATED BRIDGE MULTI-HAZARD ASSESSMENT SYSTEM

[Özcan, Orkan](#), Istanbul Technical University, Turkey [Özcan, Okan](#), Akdeniz University, Turkey

TU1.R2.3: LONG-TERM MONITORING OF A TUNNEL IN A LANDSLIDE PRONE AREA BY DISTRIBUTED OPTICAL FIBER SENSORS

[Minardo, Aldo](#), University of Campania Luigi Vanvitelli, Italy [Catalano, Ester](#), University of Campania Luigi Vanvitelli, Italy [Coscetta, Agnese](#), University of Campania Luigi Vanvitelli, Italy [Zeni, Giovanni](#), National Research Council (CNR), Italy [Di Maio, Caterina](#), University of Basilicata, Italy [Vassallo, Roberto](#), University of Basilicata, Italy [Picarelli, Luciano](#), University of Campania Luigi Vanvitelli, Italy [Coviello, Roberto](#), Rete Ferroviaria Italiana (Ferrovie dello Stato Italiane Group), Italy [Macchia, Giuseppe](#), Rete Ferroviaria Italiana (Ferrovie dello Stato Italiane Group), Italy [Zeni, Luigi](#), University of Campania Luigi Vanvitelli, Italy

TU1.R2.4: LANDSLIDE SUSCEPTIBILITY USING REMOTE SENSING DATA & GIS IN A HIGH ANDEAN AREA OF CENTRAL CHILE

[Vidal Pérez, Paulina](#), Hémera Centro de Observación de la Tierra, Universidad Mayor, Chile [Clavero, Jorge](#), Amawta Geoconsultores, Chile [Droguett, Bárbara](#), Amawta Geoconsultores, Chile [Pérez Martínez, Waldo](#), Hémera Centro de Observación de la Tierra, Universidad Mayor, Chile [Briceño de Urbaneja, Idania](#), Hémera Centro de Observación de la Tierra, Universidad Mayor, Chile [Oliva, Patricia](#), Hémera Centro de Observación de la Tierra, Universidad Mayor, Chile

TU1.R2.5: EARTHQUAKE-INDUCED BUILDING DAMAGE ASSESSMENT ON SAR MULTI-TEXTURE FEATURE FUSION

[Du, Yankai](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Gong, Lixia](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Li, Qiang](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Wu, Fan](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

TU1.R2.6: TECTONIC DIFFERENCE BETWEEN THE QAIDAM BASIN AND THE EASTERN KUNLUN SHAN: INSIGHT FROM BUFFER ANALYSIS OF THE EARTHQUAKES AND FAULTS IN THE NORTH TIBET

[Wang, Lin](#), Peking University, China [Hou, Kaihua](#), Peking University, China [Cheng, Feng](#), University of Rochester, United States

TU1.R2.7: THREE-DIMENSIONAL VARIATIONS OF CARBON MONOXIDE CONCENTRATION ASSOCIATED WITH WENCHUAN EARTHQUAKE BASED ON AIRS DATA

[Cui, Yueju](#), Institute of Earthquake Forecasting, CEA, China [Du, Jianguo](#), Institute of Earthquake Forecasting, CEA, China [Zhang, Ying](#), Institute of Remote Sensing Applications Chinese Academy of Sciences, China [Wang, Shumin](#), Institute of Earthquake Forecasting, CEA, China [Li, Xinyan](#), Earthquake Agency of Ningxia Hui Autonomous Region, China [Zou, Zhenyu](#), Institute of Earthquake Forecasting, CEA, China [Jiang, Li](#), Institute of Earthquake Forecasting, CEA, China

TU1.R2.8: CONVOLUTIONAL RECURRENT NEURAL NETWORKS FOR EARTHQUAKE EPICENTRAL DISTANCE ESTIMATION USING SINGLE-CHANNEL SEISMIC WAVEFORM

[Kim, Gwantae](#), Korea University, Korea (South) [Ku, Bonhwa](#), Korea University, Korea (South) [Li, Yuanming](#), Korea University, Korea (South) [Min, Jeongki](#), Korea University, Korea (South) [Lee, Jimin](#), Korea Meteorological Administration, Korea (South) [Ko, Hanseok](#), Korea University, Korea (South)

TU1.R2.9: USING MULTIMODAL LEARNING MODEL FOR EARTHQUAKE DAMAGE DETECTION BASED ON OPTICAL SATELLITE IMAGERY AND STRUCTURAL ATTRIBUTES

[Miyamoto, Takashi](#), University of Yamanashi, Japan [Yamamoto, Yudai](#), University of Yamanashi, Japan

TU1.R2.10: SEISMIC ANALYSIS ON HISTORICAL BRIDGE USING PHOTOGRAMMETRY AND FINITE ELEMENTS

[Parra, Hector](#), Universidad Distrital Francisco José de Caldas, Colombia [Angulo, Victor](#), Universidad Distrital Francisco José de Caldas, Colombia [Gaona, Elvis](#), Universidad Distrital Francisco José de Caldas, Colombia

TU1.R2.11: CONSTRUCTION AND APPLICATION OF A POST-QUAKE HOUSE DAMAGE MODEL BASED ON MULTISCALE SELF-ADAPTIVE FUSION OF SPECTRAL TEXTURES IMAGES

[Zhang, Rui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhou, Yi](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Shixin](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Futao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [He, Yun](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [You, Shucheng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU1.R2.12: EARTHQUAKE EARLY WARNING USING LOW-COST MEMS SENSORS

[Kwon, Young-Woo](#), Kyungpook National University, Korea (South) [Ahn, Jae-Kwang](#), Korea Meteorological Administration, Korea (South) [Lee, Jimin](#), Korea Meteorological Administration, Korea (South) [Lee, Chul-Ho](#), Florida Institute of Technology, Korea (South)

TU1.R3 - SAR Interferometry II Tuesday, September 29, 05:00 - 07:00 • Room 3

TU1.R3.1: MEKONG SAR INTERFEROMETRY BIG DATA: PRELIMINARY RESULTS

[Ho Tong Minh, Dinh](#), INRAE, France [Le, Trung Chon](#), Ho Chi Minh city University of Technology, Viet Nam [Ngo, Yen-Nhi](#), INRAE, France [Nguyen, Cam Chi](#), Department of Survey, Mapping and Geographic Information, Viet Nam [Pham, Thanh An](#), Defense Mapping Agency, Viet Nam [Le Toan, Thuy](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, Viet Nam

TU1.R3.2: A NOVEL GROUND MOVING TARGET RADIAL VELOCITY ESTIMATION METHOD FOR DUAL-BEAM ALONG-TRACK INTERFEROMETRIC SAR

[Tang, Xinxin](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China

TU1.R3.3: INTERFEROMETRIC PHASE STACK DATA FILTER METHOD VIA BAYESIAN CP FACTORIZATION

[Wang, Rui](#), Beijing University of Posts and Telecommunications, China [You, Yanan](#), Beijing University of Posts and Telecommunications, China [Zhou, Wenli](#), Beijing University of Posts

and Telecommunications, China

TU1.R3.4: PHASE UNWRAPPING VIA DEEP LEARNING BASED REGION SEGMENTATION

[Zhang, Ziwen](#), University of Electronic Science and Technology of China, China [Qian, Jiang](#), University of Electronic Science and Technology of China, China [Wang, Yong](#), University of Electronic Science and Technology of China, China [Yang, Xiaobo](#), University of Electronic Science and Technology of China, China

TU1.R3.5: AN INFINITY-NORM-BASED PHASE UNWRAPPING METHOD WITH TSPA FRAMEWORK FOR MULTI-BASELINE SAR INTERFEROGRAMS

[Lan, Yang](#), Xidian University, China [Yu, Hanwen](#), University of Houston, United States [Xing, Mengdao](#), Xidian University, China [Fu, Jixiang](#), Xidian University, China

TU1.R3.6: IMPROVED BRANCH-CUT ALGORITHM FOR MULTIBASELINE PHASE UNWRAPPING USING SAR INTERFEROGRAMS

[Zhou, Lifan](#), Changshu Institute of Technology, China [Yu, Hanwen](#), University of Houston, United States [Lan, Yang](#), Xidian University, China

TU1.R3.7: A DEM FUSION METHOD OF MULTI-BASELINE INSAR BASED ON PRIOR TERRAIN AND GUIDED FILTER

[Liu, Zhi](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China [Chen, Yifei](#), University of Electronic Science and Technology of China, China [Zhan, Xu](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China

TU1.R3.8: INVESTIGATION OF ALONG-TRACK INTERFEROMETRIC SAR USING ELECTROMAGNETIC SIMULATION

[Lee, Seungchul](#), Seoul National University, Korea (South) [Kim, Duk-jin](#), Seoul National University, Korea (South) [Kang, Ki-mook](#), Seoul National University, Korea (South)

TU1.R3.9: A NEW FOREST HEIGHT INVERSION METHOD BASED ON L-BAND REPEAT-PASS SPACEBORNE POL-INSAR DATA

[Zhang, Qi](#), University of New South Wales, Australia [Ge, Linlin](#), University of New South Wales, Australia [Du, Zheyuan](#), University of New South Wales, Australia

TU1.R3.10: DUAL-BASELINE INTERFEROMETRIC ISAR IMAGING

[Ji, Zhenyuan](#), Harbin Institute of Technology, China [Yu, Ting](#), Harbin Institute of Technology, China [Zhang, Yun](#), Harbin Institute of Technology, China

TU1.R3.11: COMPLEX-VALUED CONVOLUTIONAL NEURAL NETWORKS IN INTERFEROMETRIC SYNTHETIC APERTURE RADAR AND THEIR TEACHER-IMAGE POLLUTION INFLUENCE ON THE PERFORMANCE

[Sunaga, Yuki](#), University of Tokyo, Japan [Natsuaki, Ryo](#), University of Tokyo, Japan [Hirose, Akira](#), University of Tokyo, Japan

TU1.R3.12: GEOMETRICAL CORRECTIONS FOR GROUND CANCELED SAR IMAGES

[Mariotti d'Alessandro, Mauro](#), Politecnico di Milano, Italy [Tebaldini, Stefano](#), Politecnico di Milano, Italy

TU1.R4 - Novel Active and Passive Microwave Satellite Missions

Tuesday, September 29, 05:00 - 07:00 • Room 4

TU1.R4.1: YAW STEERING USING ADAPTIVE FILTERING FOR SPACEBORNE SAR SYSTEMS

[Chen, Tao](#), Aviation Industry of China (AVIC), China [Ding, Yongfei](#), Aviation Industry of China (AVIC), China [Pang, Ruifan](#), Aviation Industry of China (AVIC), China [Gong, Cheng](#), Aviation Industry of China (AVIC), China [Xu, Dinghai](#), Aviation Industry of China (AVIC), China [Zhang, Hengyang](#), Airforce Engineering University, China [Chen, Bo](#), Shanghai University, China

TU1.R4.2: THE CASE FOR 6-HOUR REPEAT INSAR

[Zebker, Howard](#), Stanford University, United States [Rosen, Paul](#), NASA Jet Propulsion

Laboratory, United States

TU1.R4.3: POTENTIAL OF MULTITEMPORAL ICEYE SAR DATA IN LAND COVER MAPPING APPLICATIONS

[Ignatenko, Vladimir](#), ICEYE Oy, Finland [Laurila, Pekka](#), ICEYE Oy, Finland [Friberg, Tapio](#), ICEYE Oy, Finland [Scepanovic, Sanja](#), ICEYE, Finland [Praks, Jaan](#), Aalto University, Finland [Antropov, Oleg](#), VTT Technical Research Centre of Finland, Finland

TU1.R4.4: CONCEPT STUDY OF FUTURE LAND OBSERVATION SATELLITE TECHNIQUES WHEN UTILIZING KHATRI-RAO (KR) PRODUCT ARRAY PROCESSING

[Hirahara, Daichi](#), Japan Aerospace Exploration Agency, Japan [Motohka, Takeshi](#), Japan Aerospace Exploration Agency, Japan [Uematsu, Akihisa](#), Japan Aerospace Exploration Agency, Japan

TU1.R4.5: ENVISION MISSION TO VENUS: SUBSURFACE RADAR SOUNDING

[Bruzzone, Lorenzo](#), University of Trento, Italy [Bovolo, Francesca](#), Fondazione Bruno Kessler (FBK), Italy [Thakur, Sanchari](#), University of Trento, Italy [Carrer, Leonardo](#), University of Trento, Italy [Donini, Elena](#), Fondazione Bruno Kessler (FBK), Italy [Gerekos, Christopher](#), University of Trento, Italy [Paterna, Stefano](#), University of Trento, Italy [Santoni, Massimo](#), University of Trento, Italy [Sbalchiero, Elisa](#), University of Trento, Italy

TU1.R4.6: EVALUATING CURRENT AND FUTURE SENSOR-SPECIFIC BIOMASS CALIBRATION IN THE TALLEST MANGROVE FOREST ON EARTH

[Stovall, Atticus](#), NASA Goddard Space Flight Center, United States [Lagomasino, David](#), NASA Goddard Space Flight Center, United States [Lee, Seung-Kuk](#), NASA Goddard Space Flight Center, United States [Simard, Marc](#), NASA Jet Propulsion Laboratory, United States [Thomas, Nathan](#), NASA Goddard Space Flight Center, United States [Trettin, Carl](#), USDA, United States [Fatoyinbo, Temilola](#), NASA Goddard Space Flight Center, United States

TU1.R4.7: AN AUTOMATIC PLANNING AND SCHEDULING METHOD BASED ON MULTI-OBJECTIVE GENETIC ALGORITHMS FOR PLANETARY RADAR SOUNDER OBSERVATIONS

[Paterna, Stefano](#), University of Trento, Italy [Santoni, Massimo](#), University of Trento, Italy [Bruzzone, Lorenzo](#), University of Trento, Italy

TU1.R4.8: NEW INSIGHTS FROM AUSTRALIA'S SYNTHETIC APERTURE RADAR CAPABILITY, NOVASAR-1

[Parker, Amy](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Zhou, Zheng-Shu](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Held, Alex](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Brindle, Laura](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Rosenqvist, Ake](#), solo Earth Observation, Japan

TU1.R4.9: THE NEXT GENERATION OF L BAND RADIOMETRY: USER'S REQUIREMENTS AND TECHNICAL SOLUTIONS

[Kerr, Yann](#), Centre d'Etudes Spatiales de la Biosphère, France [Rodriguez-Fernandez, Nemesio](#), Centre d'Etudes Spatiales de la Biosphère, France [Anterrieu, Eric](#), Centre d'Etudes Spatiales de la Biosphère, France [Escorihuela, Maria-José](#), isardSat, Spain [Drusch, Matthias](#), European Space Agency (ESA-ESTEC), Netherlands [Closa, Josep](#), Airbus Defence and Space, Spain [Zurita, Alberto](#), Airbus Defence and Space, Spain [Cabot, François](#), Centre d'Etudes Spatiales de la Biosphère, France [Amiot, Thierry](#), CNES, France [Bindlish, Rajat](#), NASA, United States [O'Neill, Peggy](#), NASA, United States

TU1.R4.10: A NEW L-BAND PASSIVE RADIOMETER FOR EARTH OBSERVATION: SMOS-HIGH RESOLUTION (SMOS-HR)

[Rodriguez-Fernandez, Nemesio](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Anterrieu, Eric](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Cabot, François](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Boutin, Jacqueline](#), LOCEAN, France [Picard, Ghislain](#), IGE, France [Pellarin, Thierry](#), IGE, France [Merlin, Olivier](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Vialard, Jerome](#), LOCEAN, France [Vivier, Frederic](#), LOCEAN, France [Costeraste, Josiane](#), CNES, France [Palacin, Baptiste](#), CNES, France [Rodriguez-Suquet, Raquel](#), CNES, France [Amiot, Thierry](#), CNES, France [Khazaal, Ali](#), RDIS Conseils, France [Rougé, Bernard](#), CMLA, France [Morel, Jean-Michel](#), CMLA, France [Colom, Miguel](#), CMLA, France [Decoopman, Thibaut](#), Airbus Defence and Space, France [Jeannin,](#)

[Nicolas](#), Airbus Defence and Space, France [Caujolle, Romain](#), Airbus Defence and Space, France [Escorihuela, Maria Jose](#), isardSat, Spain [Al Bitar, Ahmad](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Richaume, Philippe](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Mialon, Arnaud](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Suere, Christophe](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Kerr, Yann](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France

TU1.R4.11: AMSR-2 OBSERVATIONS OF HURRICANE DORIAN

[Jelenak, Zorana](#), University Corporation For Atmospheric Research, United States [Sapp, Joe](#), Global Science and Technology Inc., United States [Alsweiss, Suleiman](#), Global Science and Technology Inc., United States [Chang, Paul](#), NOAA/NESDIS/Center for Satellite Applications and Research, United States

TU1.R4.12: RITA: REQUIREMENTS AND PRELIMINARY DESIGN OF AN L-BAND MICROWAVE RADIOMETER, OPTICAL IMAGER, AND RFI DETECTION PAYLOAD FOR A 3U CUBESAT

[Pérez, Adrián](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Fabregat, Pau](#), IEEE Barcelona Student Branch, Spain [Badia, Marc](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Sobrinho, Marco](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Molina, Carlos](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Muñoz, Joan Francesc](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Fernandez, Lara](#), CommSensLab – UPC, Universitat Politècnica de Catalunya – BarcelonaTech, and Institute of Space Studies of Catalonia (IEEC) – CTE-UPC, Spain [Rayon, Laura](#), IEEE Barcelona Student Branch, Spain [Ramos, Juan José](#), Institute of Space Studies of Catalonia (IEEC), and Department of Electrical Engineering, Universitat Politècnica de Catalunya – BarcelonaTech, Spain

TU1.R5 - 3D Terrain Mapping / Tomographic Imaging of Forest and Ionosphere Tuesday, September 29, 05:00 - 07:00 • Room 5

TU1.R5.1: 3D RECONSTRUCTION IN MOUNTAIN AREA FOR ARRAY TOMOSAR

[Li, Xiaowan](#), Aerospace Information Research Institute, Chinese Academy of Sciences; National Key Lab of Microwave Imaging Technology; University of Chinese Academy of Sciences, China [Liang, Xingdong](#), Aerospace Information Research Institute, Chinese Academy of Sciences; National Key Lab of Microwave Imaging Technology, China [Zhang, Fubo](#), Aerospace Information Research Institute, Chinese Academy of Sciences; National Key Lab of Microwave Imaging Technology, China

TU1.R5.2: ROBUST 3D TOMOGRAPHIC IMAGING OF THE IONOSPHERIC ELECTRON DENSITY

[Xu, Xiaojian](#), Washington University in St. Louis, United States [Dhifallah, Oussama](#), Harvard University, United States [Mansour, Hassan](#), Mitsubishi Electric Research Laboratories, United States [Boufounos, Petros](#), Mitsubishi Electric Research Laboratories, United States [Orlik, Philip](#), Mitsubishi Electric Research Laboratories, United States

TU1.R5.3: COASTLINE EROSION STUDY VIA UAV DRONE REMOTE SENSING USING PYTHON MODELLING ELECTRICAL RESISTIVITY IMAGING (PYMERI)

[Antoine, Raphaël](#), CEREMA Normandie, France [Ciotir, Ioana](#), INSA Rouen Normandie, France [Costa, Stéphane](#), Université de Caen, France [Fargier, Yannick](#), IFSTTAR - Bron, France [Fauchard, Cyrille](#), CEREMA Normandie, France [Gout, Christian](#), INSA Rouen, France [Le Guyader, Carole](#), INSA Rouen Normandie, France [Maquaire, Olivier](#), Université de Caen, France [Taoum, Sam](#), CEREMA Normandie, France [Tonnoir, Antoine](#), INSA Rouen, France

TU1.R5.4: OPERATIONAL PIPELINE FOR LARGE-SCALE 3D RECONSTRUCTION OF BUILDINGS FROM SATELLITE IMAGES

[Tripodi, Sebastien](#), LuxCarta Technology, France [Duan, Liuyun](#), LuxCarta Technology, France [Poujade, Veronique](#), LuxCarta Technology, France [Trastour, Frederic](#), LuxCarta Technology,

France [Bauchet, Jean-Philippe](#), LuxCarta Technology, France [Laurere, Lionel](#), LuxCarta Technology, France [Tarabalka, Yuliya](#), LuxCarta Technology, France

TU1.R5.5: PERSISTENT SCATTERER DETECTION AND 3-D RECONSTRUCTION OF TRANSMISSION TOWER IN MOUNTAIN AREA BASED ON SAR TOMOGRAPHY

[Du, Min](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Centre for Resources Satellite Data and Application, China [Li, Baihui](#), University of Electronic Science and Technology of China, China [Jiang, Linghai](#), University of Electronic Science and Technology of China, China

TU1.R5.6: CARS: A PHOTOGRAMMETRY PIPELINE USING DASK GRAPHS TO CONSTRUCT A GLOBAL 3D MODEL

[Youssefi, David](#), Centre National d'Etudes Spatiales (CNES), France [Michel, Julien](#), Centre National d'Etudes Spatiales (CNES), France [Sarrazin, Emmanuelle](#), Centre National d'Etudes Spatiales (CNES), France [Buffe, Fabrice](#), Centre National d'Etudes Spatiales (CNES), France [Courmet, Myriam](#), Centre National d'Etudes Spatiales (CNES), France [Delvit, Jean-Marc](#), Centre National d'Etudes Spatiales (CNES), France [L'Helguen, Céline](#), Centre National d'Etudes Spatiales (CNES), France [Melet, Olivier](#), Centre National d'Etudes Spatiales (CNES), France [Emilien, Aurélie](#), CS, France [Bosman, Julien](#), CS, France

TU1.R5.7: TOTAL REFRACTIVITY FIELDS FROM GNSS TROPOSPHERIC DELAYS RECONSTRUCTED WITH COLLOCATION METHODS

[Shehaj, Endrit](#), ETH Zurich, Switzerland [Geiger, Alain](#), ETH Zurich, Switzerland [Moeller, Gregor](#), ETH Zurich, Switzerland

TU1.R5.8: DEM EXTRACTION FROM AIRBORNE LIDAR POINT CLOUD IN THICK FORESTED AREAS VIA CONVOLUTIONAL NEURAL NETWORK

[Zhang, Yongjun](#), Wuhan University, China [Xiang, Sizhe](#), Wuhan University, China [Wan, Yi](#), Wuhan University, China [Cao, Hui](#), Wuhan University, China [Luo, Yimin](#), King's College London, United Kingdom [Zheng, Zhi](#), Wuhan University, China

TU1.R5.9: TOWARD A STRUCTURAL DESCRIPTION OF ROW CROPS USING UAS-BASED LIDAR POINT CLOUDS

[Zhang, Fei](#), Rochester Institute of Technology, United States [Hassanzadeh, Amirhossein](#), Rochester Institute of Technology, United States [Kikkert, Julie](#), Cornell University, United States [Pethybridge, Sarah](#), Cornell University, United States [van Aardt, Jan](#), Rochester Institute of Technology, United States

TU1.R5.10: UAV INTELLIGENT OPTIMAL PATH PLANNING METHOD FOR DISTRIBUTED RADAR SHORT-TIME APERTURE SYNTHESIS

[Xu, Fanyun](#), University of Electronic Science and Technology of China, China [Wang, Rufe](#), University of Electronic Science and Technology of China, China [Zhao, Lu](#), University of Electronic Science and Technology of China, China [Zhang, Yongchao](#), University of Electronic Science and Technology of China, China [Zhang, Yin](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

TU1.R5.11: INVESTIGATION OF DIURNAL FLUCTUATIONS OF HEAT AND WATER DISTRIBUTIONS AROUND LANDMINES IMPACTED BY SOIL HETEROGENEITY

[Wallen, Benjamin](#), United States Military Academy, United States [Wright, William](#), United States Military Academy, United States [Oxendine, Christopher](#), United States Military Academy, United States

TU1.R6 - Advanced Learning Methods for Hyperspectral Classification

Tuesday, September 29, 05:00 - 07:00 • Room 6

TU1.R6.2: HYPERSPECTRAL CLASSIFICATION USING LOW RANK AND SPARSITY MATRICES DECOMPOSITION

[Cao, Hongju](#), Dalian Maritime University, China [Shang, Xiaodi](#), Dalian Maritime University, China [Yu, Chunyan](#), Dalian Maritime University, China [Song, Meiping](#), Dalian Maritime

University, China [Chang, Chein-I](#), Dalian Maritime University, China

TU1.R6.3: MULTIFRACTAL PARAMETERS FOR CLASSIFICATION OF HYPERSPECTRAL DATA

[Krupiński, Michał](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Wawrzaszek, Anna](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Drzewiecki, Wojciech](#), AGH University of Science and Technology, Poland [Jenerowicz, Małgorzata](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Aleksandrowicz, Sebastian](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland

TU1.R6.4: SPECTRAL-SPATIAL FEATURE EXTRACTION BASED CNN FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Quan, Yinghui](#), School of Electronic Engineering, Xidian University, China [Dong, Shuxian](#), School of Electronic Engineering, Xidian University, China [Feng, Wei](#), School of Electronic Engineering, Xidian University, China [Dauphin, Gabriel](#), L2TI, Institut Galilée, University Paris XIII, France [Zhao, Guoping](#), Shaan Xi Academy of Forestry, China [Wang, Yong](#), School of Electronic Engineering, Xidian University, China [Xing, Mengdao](#), Xidian University, China

TU1.R6.5: FEATURE SEPARATION BASED ROTATION FOREST FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Feng, Wei](#), School of Electronic Engineering, Xidian University, China [Quan, Yinghui](#), School of Electronic Engineering, Xidian University, China [Dauphin, Gabriel](#), L2TI, Institut Galilée, University Paris XIII, France [Wu, Puxia](#), Shaanxi Academy of Forestry, China [Bie, Bowen](#), School of Electronic Engineering, Xidian University, China [Tong, Yingping](#), Xidian University, China [Yuan, Xiaoguang](#), Xidian University, China [Li, Jing](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China

TU1.R6.6: HYPERSPECTRAL IMAGE CLASSIFICATION USING FISHER'S LINEAR DISCRIMINANT ANALYSIS FEATURE REDUCTION WITH GABOR FILTERING AND CNN

[Zhou, Meilun](#), Mississippi State University, United States [Samiappan, Sathishkumar](#), Mississippi State University, United States [Worch, Ethan](#), Mississippi State University, United States [Ball, John E.](#), Mississippi State University, United States

TU1.R6.7: A NEW HYPERSPECTRAL CLASSIFICATION METHOD BASED ON NON-SUBSAMPLED CONTOURLET TRANSFORM (NSCT) AND DEEP NEURAL NETWORK

[Bai, Jing](#), Xidian University, China [Yu, Wentao](#), Xidian University, China [Zhou, Huaji](#), Xidian University, China [Xiao, Zhu](#), Hunan University, China [Wang, Yonggang](#), Xidian University, China

TU1.R6.8: DEEP SELF-SUPERVISED LEARNING FOR FEW-SHOT HYPERSPECTRAL IMAGE CLASSIFICATION.

[Li, Yu](#), Northwestern Polytechnical University, China [Zhang, Lei](#), Northwestern Polytechnical University, China [Wei, Wei](#), Northwestern Polytechnical University, China [Zhang, Yanning](#), Northwestern Polytechnical University, China

TU1.R6.9: DECOUPLED NETWORK WITH ACTIVE LEARNING STRATEGY FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Bai, Jing](#), Xidian University, China [Yuan, Anran](#), Xidian University, China [Yu, Wentao](#), Xidian University, China [Wang, Dingchen](#), Xi'an Jiaotong University, China [Zhang, Fan](#), Xidian University, China

TU1.R6.10: PARTICLE SWARM OPTIMIZATION BASED DEEP LEARNING ARCHITECTURE SEARCH FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Zhang, Chaochao](#), China University of Geosciences, China [Liu, Xiaobo](#), China University of Geosciences, China [Wang, Guangjun](#), China University of Geosciences, China [Cai, Zhihua](#), China University of Geosciences, China

TU1.R6.11: SPECTRAL-SPATIAL CLASSIFICATION OF HYPERSPECTRAL IMAGE USING PCA AND GABOR FILTERING

[Yan, Qingyu](#), Harbin Institute of Technology, China [Zhang, Junping](#), Harbin Institute of Technology, China [Feng, Jia](#), Harbin Institute of Technology, China

TU1.R6.12: MULTI-GPU PARALLEL IMPLEMENTATION OF SPATIAL-SPECTRAL KERNEL SPARSE REPRESENTATION FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Deng, Weishi](#), Nanjing University of Science and Technology, China [Wu, Zebin](#), Nanjing

University of Science and Technology, China [Ma, Haoyang](#), Nanjing University of Posts and Telecommunications, China [Wang, Qicong](#), Nanjing University of Science and Technology, China [Sun, Jin](#), Nanjing University of Science and Technology, China [Xu, Yang](#), Nanjing University of Science and Technology, China [Yang, Jiandong](#), China Satellite Maritime Tracking and Control Department, China [Wei, Zhihui](#), Nanjing University of Science and Technology, China [Liu, Hongyi](#), Nanjing University of Science and Technology, China

TU1.R7 - Learning and Transformation for Image Classification

Tuesday, September 29, 05:00 - 07:00 • Room 7

[TU1.R7.1: MULTI-LABEL REMOTE SENSING IMAGE CLASSIFICATION WITH DEFORMABLE CONVOLUTIONS AND GRAPH NEURAL NETWORKS](#)

[Diao, Yingyu](#), Zhejiang University, China [Chen, Jingzhou](#), Zhejiang University, China [Qian, Yuntao](#), Zhejiang University, China

[TU1.R7.2: LEARNING MULTI-LABEL AERIAL IMAGE CLASSIFICATION UNDER LABEL NOISE: A REGULARIZATION APPROACH USING WORD EMBEDDINGS](#)

[Hua, Yuansheng](#), German Aerospace Center & Technical University of Munich, Germany [Lobry, Sylvain](#), Wageningen University & Research, Netherlands [Mou, Lichao](#), German Aerospace Center & Technical University of Munich, Germany [Tuia, Devis](#), Wageningen University & Research, Netherlands [Zhu, Xiao Xiang](#), German Aerospace Center & Technical University of Munich, Germany

[TU1.R7.3: COMPARING THE PERFORMANCE OF MATHEMATICAL MORPHOLOGY AND BHATTACHARYYA DISTANCE FOR AIRPORT EXTRACTION](#)

[Casaca, Wallace](#), Universidade Estadual Paulista (UNESP), Brazil [Ederli, Daniel](#), Universidade Estadual Paulista (UNESP), Brazil [Silva, Erivaldo](#), Universidade Estadual Paulista (UNESP), Brazil [Baixo, Fernando](#), Universidade Estadual Paulista (UNESP), Brazil [Godoy, Thamires](#), Universidade Estadual Paulista, Brazil [Colnago, Marilaine](#), Universidade Estadual Paulista (UNESP), Brazil

[TU1.R7.4: SE-HRNET: A DEEP HIGH-RESOLUTION NETWORK WITH ATTENTION FOR REMOTE SENSING SCENE CLASSIFICATION](#)

[Li, Lingling](#), China University of Geosciences, China [Tian, Tian](#), China University of Geosciences, China [Li, Hang](#), Beijing Aerospace System Engineering Research Institute, China [Wang, Lizhe](#), China University of Geosciences, China

[TU1.R7.5: REMOTE SENSING SCENE CLASSIFICATION BASED ON GLOBAL AND LOCAL CONSISTENT NETWORK](#)

[Ma, Jingjing](#), Xidian University, China [Ma, Qiushuo](#), Xidian University, China [Tang, Xu](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Zhu, Cheng](#), Xidian University, China [Peng, Qunnie](#), Science and Technology on Electro-optic Control Laboratory, China [Jiao, Licheng](#), Xidian University, China

[TU1.R7.6: SEMI-SUPERVISED LEARNING-BASED REMOTE SENSING IMAGE SCENE CLASSIFICATION VIA ADAPTIVE PERTURBATION TRAINING](#)

[Wang, Chen](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Ni, Yikai](#), University of Electronic Science and Technology of China, China [Zhou, Yuanyuan](#), University of Electronic Science and Technology of China, China [Yang, Xiqing](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China

[TU1.R7.7: GRAPH EMBEDDING FOR REMOTE SCENE IMAGE CLASSIFICATION BASED ON ATTENTION MODEL](#)

[Ji, Jinsheng](#), Shanghai Jiao Tong University, China [Lu, Xiankai](#), Inception Institute of Artificial Intelligence, United Arab Emirates [Yang, Zhen](#), Jiangxi Science and Technology Normal University, China [Guo, Yiyu](#), Tongji University, China [Xiong, Huilin](#), Shanghai Jiao Tong University, China

[TU1.R7.8: REMOTE SENSING SCENE CLASSIFICATION USING SPATIAL TRANSFORMER FUSING NETWORK](#)

[Tong, Shun](#), China University of Geosciences (Wuhan), China [Qi, Kunlun](#), China University of Geosciences (Wuhan), China [Guan, Qingfeng](#), China University of Geosciences (Wuhan), China [Zhu, Qiqi](#), China University of Geosciences (Wuhan), China [Yang, Chao](#), China University of Geosciences (Wuhan), China [Zheng, Jie](#), Wuhan University, China

[TU1.R7.10: GREENHOUSE EXTRACTION FROM HIGH-RESOLUTION REMOTE SENSING IMAGERY WITH IMPROVED RANDOM FOREST](#)

[Feng, Tianjing](#), China University of Geosciences, China [Ma, Hairong](#), Hubei Academy of Agricultural Science, China [Cheng, Xinwen](#), China University of Geosciences, China

[TU1.R7.11: LITHIUM \(LI\) PEGMATITE MAPPING USING ARTIFICIAL NEURAL NETWORKS \(ANNS\): PRELIMINARY RESULTS](#)

[Cardoso-Fernandes, Joana](#), Faculty of Sciences, University of Porto, Portugal [Teodoro, Ana Cláudia](#), Faculty of Sciences, University of Porto, Portugal [Lima, Alexandre](#), Faculty of Sciences, University of Porto, Portugal [Roda-Robles, Encarnación](#), Universidad del País Vasco, Spain

[TU1.R7.12: A WAVELET DOMAIN BASED CNN SHIP CLASSIFICATION METHOD FOR HIGH RESOLUTION OPTICAL SATELLITE REMOTE SENSING IMAGES](#)

[Li, Mengyang](#), Naval Aviation University, China [Sun, Weiwei](#), Naval Aviation University, China [Xian, Darong](#), The People's Liberation Army unit 93-155, China [Zhang, Xiaohan](#), Naval Aviation University, China [Lin, Xun](#), Naval Aviation University, China [Yao, Libo](#), Naval Aviation University, China [Zhou, Pengyu](#), Naval Aviation University, China

TU1.R8 - Ocean Surface Winds and Currents I Tuesday, September 29, 05:00 - 07:00 • Room 8

[TU1.R8.1: C-BAND CROSS-POLARIZATION AIRBORNE OCEAN SURFACE NRCS OBSERVATIONS IN HURRICANES: 2015--2019](#)

[Sapp, Joseph](#), National Oceanic and Atmospheric Administration National Environmental Satellite, Data, and Information Service, United States [Jelenak, Zorana](#), National Oceanic and Atmospheric Administration National Environmental Satellite, Data, and Information Service, United States [Chang, Paul](#), National Oceanic and Atmospheric Administration National Environmental Satellite, Data, and Information Service, United States [Frasier, Stephen](#), University of Massachusetts Amherst, United States

[TU1.R8.2: TRAINING OF TROPICAL CYCLONE WIND SPEED ALGORITHMS FOR THE WINDSAT AND AMSR SENSORS](#)

[Meissner, Thomas](#), Remote Sensing Systems, United States [Ricciardulli, Lucrezia](#), Remote Sensing Systems, United States [Manaster, Andrew](#), Remote Sensing Systems, United States [Wentz, Frank](#), Remote Sensing Systems, United States

[TU1.R8.3: RAIN EFFECTS ON CFOSAT SCATTEROMETER: TOWARDS AN IMPROVED WIND QUALITY CONTROL](#)

[Lin, Wenming](#), Nanjing University of Information Science and Technology, China [Portabella, Marcos](#), Institute of Marine Sciences (ICM-CSIC), Spain [Zhao, Xiaokang](#), Nanjing University of Information Science and Technology, China [Lang, Shuyan](#), National Satellite Ocean Application Service, China

[TU1.R8.4: AN OVERVIEW OF NOAA CYGNSS WIND PRODUCT VERSION 1.0](#)

[Said, Faozi](#), National Oceanic And Atmospheric Administration, United States [Jelenak, Zorana](#), National Oceanic And Atmospheric Administration, United States [Park, Jeonghwan](#), National Oceanic And Atmospheric Administration, United States [Zhu, Qi](#), National Oceanic And Atmospheric Administration, United States [Chang, Paul](#), National Oceanic And Atmospheric Administration, United States

[TU1.R8.5: ABSORPTION AND SCATTERING BY SEA FOAM STREAKS AT MILLIMETER-WAVE FREQUENCIES](#)

[Anguelova, Magdalena](#), Naval Research Laboratory, United States

[TU1.R8.6: APPLICATION OF COINCIDENT SUB-FOOTPRINT SCALE WINDS TO DEVELOP METHODS FOR ESTIMATING SEA SURFACE VORTICITY FROM THE RAPIDSCAT SCATTEROMETER KU-BAND NRCS](#)

[Weissman, David](#), Hofstra University, United States [Bourassa, Mark](#), Florida State University, United States

[TU1.R8.7: RETRIEVING OCEAN SURFACE CURRENTS FROM THE SENTINEL-1 DOPPLER SHIFT OBSERVATIONS: A CASE STUDY OF THE NORWEGIAN COASTAL CURRENT](#)

[Moiseev, Artem](#), Nansen Environmental and Remote Sensing Center, Norway [Johnsen, Harald](#), NORCE, Norway [Johannessen, Johnny](#), Nansen Environmental and Remote Sensing Center, Norway

[TU1.R8.8: IMPACT OF SCALE SEPARATION IN THE COHERENT TWO-SCALE MODEL ON DOPPLER AND NORMALIZED CROSS SECTION PREDICTIONS FOR SEA BACKSCATTER - A NUMERICAL STUDY](#)

[Toporkov, Jakov](#), US Naval Research Laboratory, United States

[TU1.R8.9: CAL/VAL PHASE FOR THE SWIM INSTRUMENT ONBOARD CFOSAT](#)

[Tourain, Cédric](#), CNES, France [Hauser, Danièle](#), LATMOS, France [Hermozo, Laura](#), CNES, France [Rodriguez Suquet, Raquel](#), CNES, France [Schippers, Patricia](#), LATMOS, France [Aouf, Lotfi](#), Météo France, France [Dalphiné, Alice](#), Météo France, France [Mouche, Alexis](#), Ifremer, France [Chapron, Bertrand](#), Ifremer, France [Collard, Fabrice](#), Ocean Data Lab, France [Dufour, Christophe](#), LATMOS, France [Gouillon, Flavien](#), CNES, France [Ollivier, Annabelle](#), CLS, France [Piras, Fanny](#), CLS, France [Dalila, Maëva](#), CLS, France [Guitton, Gilles](#), Ocean Data Lab, France [Lachiver, Jean-Michel](#), CNES, France [Tison, Céline](#), CNES, France

[TU1.R8.10: MOTIONAL BEHAVIOR ESTIMATION USING SIMPLE SPECTRAL ESTIMATION: APPLICATION TO THE OFF-SHORE WIND LIDAR.](#)

[Salcedo-Bosch, Andreu](#), Universitat Politècnica de Catalunya (UPC), Spain [Rocadenbosch, Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Gutierrez-Antunano, Miguel Angel](#), Universitat Politècnica de Catalunya (UPC), Spain [Tiana-Alsina, Jordi](#), Universitat Politècnica de Catalunya (UPC), Spain

[TU1.R8.11: DEVELOPMENT OF A TWO-SCALE OCEAN SURFACE EMISSIVITY MODEL APPLICABLE OVER A WIDE RANGE OF MICROWAVE FREQUENCIES](#)

[Lee, Sang-Moo](#), Center for Environmental Technology, United States [Gasiewski, Albin](#), Center for Environmental Technology, United States

TU1.R9 - Ice Sheets and Glaciers Tuesday, September 29, 05:00 - 07:00 • Room 9

[TU1.R9.1: LAKE ICE CLASSIFICATION FROM MODIS TOA REFLECTANCE IMAGERY USING A CONVOLUTIONAL NEURAL NETWORK: A CASE STUDY OF GREAT SLAVE LAKE, CANADA](#)

[Wu, Yuhao](#), University of Waterloo, Canada [Duguay, Claude](#), University of Waterloo, Canada [Xu, Linlin](#), University of Waterloo, Canada

[TU1.R9.2: A STUDY OF COMBINED ACTIVE PASSIVE MICROWAVE SOUNDING OF ICE SHEET INTERNAL TEMPERATURE PROFILING](#)

[Bai, Dongjin](#), National Space Science Center, Chinese Academy of Sciences, China [Dong, Xiaolong](#), National Space Science Center, Chinese Academy of Sciences, China [Tjuatja, Saibun](#), University of Texas at Arlington, United States [Zhu, Di](#), National Space Science Center, Chinese Academy of Sciences, China

[TU1.R9.3: MELT DETECTION OVER GREENLAND USING SMAP RADIOMETER OBSERVATIONS](#)

[Mousavi, Seyedmohammad](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Colliander, Andreas](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Miller, Julie](#), University of Colorado Boulder, United States [Entekhabi, Dara](#), Massachusetts Institute of Technology, United States [Johnson, Joel](#), The Ohio State University, United States [Shuman, Christopher](#), University of Maryland, Baltimore County at NASA Goddard Space Flight Center, United States [Kimball, John](#), University of Montana, United States [Courville, Zoe](#), Cold Regions Research and Engineering Laboratory, United States

[TU1.R9.4: ESTIMATION OF CRYSTAL ORIENTATION FABRIC FROM AIRBORNE POLARIMETRIC ICE SOUNDING RADAR DATA](#)

[Dall, Jørgen](#), Technical University of Denmark, Denmark

TU1.R9.5: AN L-BAND RADAR SYSTEM FOR ICE SHEET MEASUREMENTS

[Yan, Jie-Bang](#), University of Alabama, United States [Kolpuke, Shriniwas](#), University of Alabama, United States [Nunn, Joshua](#), University of Alabama, United States [Li, Linfeng](#), University of Alabama, United States [Gogineni, Prasad](#), University of Alabama, United States [Taylor, Ryan](#), University of Alabama, United States [O'Neill, Charles](#), University of Alabama, United States [Steinhage, Daniel](#), Alfred Wegener Institute, Germany

TU1.R9.6: COMPARISON OF PASSIVE MICROWAVE MELT DETECTION OF GREENLAND: L-BAND AND XPGR

[Houtz, Derek](#), Swiss Federal Research Institute WSL, Switzerland [Naderpour, Reza](#), Swiss Federal Research Institute WSL, Switzerland [Schwank, Mike](#), Swiss Federal Research Institute WSL, Switzerland

TU1.R9.7: GLACIER MELTING RISK: PREDICTIVE MODEL OF GLACIAL MELTING BY CORRELATING TIMESERIES ANALYSIS OF GEOGLACIAL DATA WITH FRACTAL-ANALYSIS OF REMOTE-SENSED IMAGES

[Karamchedu, Mithra](#), Jesuit High School, United States

TU1.R9.8: GEOSTATISTICALLY SIMULATING SUBGLACIAL TOPOGRAPHY WITH SYNTHETIC TRAINING DATA

[Mackie, Emma](#), Stanford University, United States [Schroeder, Dustin](#), Stanford University, United States

TU1.R9.9: MULTI-FREQUENCY PASSIVE REMOTE SENSING OF ICE SHEETS FROM L-BAND TO W-BAND

[Aksoy, Mustafa](#), University at Albany, State University of New York, United States [Kar, Rahul](#), University at Albany, State University of New York, United States [Sugumar, Prethiga](#), University at Albany, State University of New York, United States [Atrey, Pranjal](#), University at Albany, State University of New York, United States

TU1.R9.10: SURGING GLACIER DYNAMICS IN TARIM BASIN USING SAR DATA

[Bandyopadhyay, Debmita](#), Indian Institute of Technology Bombay, India [Singh, Gulab](#), Indian Institute of Technology Bombay, India [Dasaundhi, Girjesh](#), Indian Institute of Technology Bombay, India [Nela, Bala Raju](#), Indian Institute of Technology Bombay, India [Patil, Akshay](#), Indian Institute of Technology Bombay, India [Mohanty, Shradha](#), Indian Institute of Technology Bombay, India

TU1.R9.11: ESTIMATING DYNAMIC PARAMETERS OF BARA SHIGRI GLACIER AND DERIVATION OF MASS BALANCE FROM VELOCITY

[Nela, Bala Raju](#), Indian Institute of Technology Bombay, India [Singh, Gulab](#), Indian Institute of Technology Bombay, India [Bandyopadhyay, Debmita](#), Indian Institute of Technology Bombay, India [Patil, Akshay](#), Indian Institute of Technology Bombay, India [Mohanty, Shradha](#), Indian Institute of Technology Bombay, India [Musthafa, Mohamed](#), Indian Institute of Technology Bombay, India [Dasundhi, Girjesh](#), Indian Institute of Technology Bombay, India

TU1.R10 - GeoAI and Machine Learning for GIScience Tuesday, September 29, 05:00 - 07:00 • Room 10

TU1.R10.1: STUDY OF ACADEMIC WRITING EVOLUTION IN GEOSPATIAL DOMAIN USING NATURAL LANGUAGE PROCESSING TECHNIQUES

[Barb, Adrian](#), Pennsylvania State University, United States [Chaudhary, Namrata](#), Pennsylvania State University, United States

TU1.R10.2: PROPOSAL OF A METHOD FOR WILDLIFE-VEHICLE COLLISIONS RISK ASSESSMENT BASED ON GEOGRAPHIC INFORMATION SYSTEMS AND DEEP LEARNING

[Brum, Diego](#), Unisinos, Brazil [Müller, Marianne](#), Unisinos, Brazil [R. Veronez, Mauricio](#), Unisinos, Brazil [M. de Souza, Eniuce](#), Unisinos, Brazil [Gonzaga Jr, Luiz](#), Unisinos, Brazil [J. A. Nhangá, Claudio](#), Unisinos, Brazil [T. Conrado, Guilherme](#), Unisinos, Brazil [Procksch, Natália](#), Unisinos, Brazil [Dias, Julia](#), Unisinos, Brazil [Viegas, Fabio](#), Unisinos, Brazil [Cauduro, Guilherme](#), Unisinos, Brazil [S. Silva, Vanessa](#), Unisinos, Brazil [C. Lima, Gefersom](#), Unisinos, Brazil [Amaral, Izidoro](#), Unisinos, Brazil [M. Carvalho, Caroline](#), Unisinos, Brazil [Oliveira](#)

[Gonçalves, Larissa](#), UFRGS, Brazil

TU1.R10.3: SUPER RESOLUTION GENERATIVE ADVERSARIAL NETWORK BASED IMAGE AUGMENTATION FOR SCENE CLASSIFICATION OF REMOTE SENSING IMAGES

[Zhu, Qiqi](#), China University of Geosciences, China [Fan, Xin](#), China University of Geosciences, China [Zhong, Yanfei](#), Wuhan University, China [Guan, Qingfeng](#), China University of Geosciences, China [Zhang, Liangpei](#), Wuhan University, China [Li, Deren](#), Wuhan University, China

TU1.R10.4: TOWARDS NATURAL LANGUAGE QUESTION ANSWERING OVER EARTH OBSERVATION LINKED DATA USING ATTENTION-BASED NEURAL MACHINE TRANSLATION

[Potnis, Abhishek](#), Indian Institute of Technology Bombay, India [Shinde, Rajat](#), Indian Institute of Technology Bombay, India [Durbha, Surya](#), Indian Institute of Technology Bombay, India

TU1.R10.5: SAR IMAGE ENHANCEMENT BASED ON P-M NONLINEAR DIFFUSION AND COHERENT ENHANCEMENT DIFFUSION

[Gu, Zhoubo](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Centre for Resources Satellite Data and Application, China

TU1.R10.6: LUNAR HYPERSPECTRAL IMAGE DESTRIPIING METHOD USING LOW-RANK MATRIX RECOVERY AND GUIDED PROFILE

[Zhao, Shuheng](#), Wuhan University, China [Yuan, Qiangqiang](#), Wuhan University, China [Li, Jie](#), Wuhan University, China [Shen, Huanfeng](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

TU1.R10.7: ENTROPY AND BOUNDARY BASED ADVERSARIAL LEARNING FOR LARGE SCALE UNSUPERVISED DOMAIN ADAPTATION

[Makkar, Nikhil](#), Oak Ridge National Laboratory, United States [Yang, Hsiuhan Lexie](#), Oak Ridge National Laboratory, United States

TU1.R10.8: DEEP RECONSTRUCTION-ARRIVAL PICKING NETWORKS: TRANSFER LEARNING FROM SEISMIC P-WAVE TO ULTRASONIC LOGGING IMAGING

[Gao, Xuyang](#), University of Electronic Science and Technology of China, China [Shi, Yibing](#), University of Electronic Science and Technology of China, China [Yao, Zhenqiu](#), University of Electronic Science and Technology of China, China [Zhu, Qi](#), Southwest Petroleum University, China [Li, Zhipeng](#), University of Electronic Science and Technology of China, China [Zhang, Wei](#), University of Electronic Science and Technology of China, China

TU1.R10.9: CONSTRUCTION OF AN INDOOR KNOWLEDGE GRAPH FOR POSITIONING

[Guo, Sheng](#), Chinese University of Hong Kong, Shenzhen, China [Pun, Man-On](#), Chinese University of Hong Kong, Shenzhen, China [Wang, Yang](#), Shanghai CAS-NOVA Satellite Technology Company Limited, China

TU1.R10.10: EXPLOITATION OF EARTH OBSERVATIONS: OGC CONTRIBUTIONS TO GRSS EARTH SCIENCE INFORMATICS

[Percivall, George](#), Open Geospatial Consortium, United States [Simonis, Ingo](#), Open Geospatial Consortium, Germany

TU1.R10.11: PARALLEL GENERATION OF A 3D DENSE POINT CLOUD BASED ON UAV IMAGING AND THE CMVS ALGORITHM

[Tie, Bo](#), University of Electronic Science and Technology of China, China [Huang, Fang](#), University of Electronic Science and Technology of China, China [Lu, Jun](#), University of Electronic Science and Technology of China, China [Peng, Shuying](#), University of Electronic Science and Technology of China, China [Yang, Hao](#), University of Electronic Science and Technology of China, China

TU1.R11 - Data Fusion: Optical Tuesday, September 29, 05:00 - 07:00 • Room 11

TU1.R11.1: DEEPSUM++: NON-LOCAL DEEP NEURAL NETWORK FOR SUPER-RESOLUTION OF UNREGISTERED MULTITEMPORAL IMAGES

[Bordone Molini, Andrea](#), Politecnico di Torino, Italy [Valsesia, Diego](#), Politecnico di Torino, Italy

[Fracastoro, Giulia](#), Politecnico di Torino, Italy [Magli, Enrico](#), Politecnico di Torino, Italy
[TU1.R11.2: ZERO-SHOT SENTINEL-2 SHARPENING USING A SYMMETRIC SKIPPED CONNECTION CONVOLUTIONAL NEURAL NETWORK](#)
[Nguyen, Han Van](#), University of Iceland, Iceland [Úlfarsson, Magnús Örn](#), University of Iceland, Iceland [Sveinsson, Jóhannes Rúnar](#), University of Iceland, Iceland [Sigurdsson, Jakob](#), University of Iceland, Iceland
[TU1.R11.3: SUPER-RESOLUTION OF LARGE VOLUMES OF SENTINEL-2 IMAGES WITH HIGH PERFORMANCE DISTRIBUTED DEEP LEARNING](#)
[Zhang, Run](#), RWTH Aachen University, Germany [Cavallaro, Gabriele](#), Forschungszentrum Jülich, Germany [Jitsev, Jenia](#), Forschungszentrum Jülich, Germany
[TU1.R11.4: IMPROVING SATELLITE ESTIMATES OF THE FRACTION OF ABSORBED PHOTOSYNTHETICALLY ACTIVE RADIATION THROUGH INTEGRATION](#)
[Tao, Xin](#), State University of New York at Buffalo, United States
[TU1.R11.5: SUPER-RESOLUTION OF REMOTE SENSING IMAGES BASED ON A DEEP PLUG-AND-PLAY FRAMEWORK](#)
[Tao, Hongyuan](#), Sichuan University, China
[TU1.R11.6: MULTISPECTRAL AND PANCHROMATIC IMAGE FUSION VIA CONVOLUTION SPARSE CODING WITH JOINT SPARSITY](#)
[Zhang, Feng](#), State Key Laboratory of Geo-information Engineering, China [Zhang, Kai](#), State Key Laboratory of Geo-information Engineering, China
[TU1.R11.7: UNSUPERVISED BLUR KERNEL LEARNING FOR PANSHARPENING](#)
[Guo, Anjing](#), Hunan University, China [Dian, Renwei](#), Hunan University, China [Li, Shutao](#), Hunan University, China
[TU1.R11.8: MULTI-LEVEL STRATEGY-BASED SPATIAL INFORMATION PREDICTION FOR SPATIOTEMPORAL REMOTE SENSING IMAGERY FUSION](#)
[Chen, Jia](#), China University of Geosciences, China [Feng, Ruyi](#), China University of Geosciences, China [Wang, Lizhe](#), China University of Geosciences, China [Han, Wei](#), China University of Geosciences, China [Huang, Jing](#), China University of Geosciences, China
[TU1.R11.9: EVALUATING SUPER-RESOLUTION OF SATELLITE IMAGES: A PROBA-V CASE STUDY](#)
[Kawulok, Michal](#), Silesian University of Technology, Poland [Benecki, Pawel](#), Silesian University of Technology, Poland [Nalepa, Jakub](#), Silesian University of Technology, Poland [Kostrzewa, Daniel](#), Silesian University of Technology, Poland
[TU1.R11.10: A CROSS-SCALE LOSS FOR CNN-BASED PANSHARPENING](#)
[Vitale, Sergio](#), Università di Napoli Parthenope, Italy [Scarpa, Giuseppe](#), Università di Napoli Federico II, Italy
[TU1.R11.11: OPTIMIZING WORKFLOW-EFFICIENCY OF MULTI-SOURCE CLOUD FREE OPTICAL IMAGE MOSAICS USING QUANTITATIVE TECHNIQUES](#)
[Lück, Wolfgang](#), PCI Geomatics, Canada [Dyk, Andrew](#), Canadian Forest Service, Canada

TU1.R12 - Change Detection in Optical Images Tuesday, September 29, 05:00 - 07:00 • Room 12

[TU1.R12.1: AN END-TO-END DEEP LEARNING CHANGE DETECTION FRAMEWORK FOR REMOTE SENSING IMAGES](#)
[Yang, Yi](#), Chinese Academy of Surveying and Mapping, China [Gu, Haiyan](#), Chinese Academy of Surveying and Mapping, China [Han, Yanshun](#), Chinese Academy of Surveying and Mapping, China [Li, Haitao](#), Chinese Academy of Surveying and Mapping, China
[TU1.R12.2: CHANGEMASK: LEARNING PERMUTATION-INVARIANT REPRESENTATION FOR END-TO-END LULC/LAND-COVER MAPPING AND CHANGE DETECTION](#)
[Zheng, Zhuo](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China [Ma, Ailong](#), Wuhan University, China
[TU1.R12.3: A MULTI-SCALE AND MULTI-TEMPORAL HYPERSPECTRAL TARGET DETECTION EXPERIMENT — FROM DESIGN TO FIRST RESULTS](#)

[Vögtli, Marius](#), University of Zurich, Switzerland [Schreiner, Simon](#), Fraunhofer IOSB - Institute of Optronics, System Technologies and Image Exploitation, Germany [Böhler, Jonas](#), University of Zurich, Switzerland [Gross, Wolfgang](#), Fraunhofer IOSB - Institute of Optronics, System Technologies and Image Exploitation, Germany [Kuester, Jannick](#), Fraunhofer IOSB - Institute of Optronics, System Technologies and Image Exploitation, Germany [Mispelhorn, Jonas](#), Fraunhofer IOSB - Institute of Optronics, System Technologies and Image Exploitation, Germany [Hueni, Andreas](#), University of Zurich, Switzerland [Middelmann, Wolfgang](#), Fraunhofer IOSB - Institute of Optronics, System Technologies and Image Exploitation, Germany [Kneubühler, Mathias](#), University of Zurich, Switzerland

TU1.R12.4: CHANGE DETECTION IN WIND-STORM DAMAGED FOREST USING RANDOM FORESTS AND ENSEMBLE MARGIN

[Feng, Wei](#), Xidian University, China [Boukir, Samia](#), Bordeaux INP, France

TU1.R12.5: ASSESSING MORPHOLOGICAL CHANGES OF MEANDERING RIVERS USING UNMANNED AERIAL VEHICLES

[Özcan, Orkan](#), Istanbul Technical University, Turkey [Akay, Semih Sami](#), Yildiz Technical University, Turkey

TU1.R12.6: BUILDING CHANGE DETECTION USING MODIFIED SIAMESE NEURAL NETWORKS

[Cummings, Sol](#), PASCO Corporation, Japan [Nakamura, Sho](#), PASCO Corporation, Japan [Shimazaki, Yasunobu](#), PASCO Corporation, Japan

TU1.R12.7: CSDN: A CROSS SPATIAL DIFFERENCE NETWORK FOR SEMANTIC CHANGE DETECTION IN REMOTE SENSING IMAGES

[Yang, Kunping](#), State Key Laboratory of LIESMARS, Wuhan University, China [Liu, Zicheng](#), State Key Laboratory of LIESMARS, Wuhan University, China [Xia, Gui-Song](#), State Key Laboratory of LIESMARS, Wuhan University, China [Zhang, Liangpei](#), State Key Laboratory of LIESMARS, Wuhan University, China

TU1.R12.8: HETEROGENEOUS CHANGE DETECTION WITH SELF-SUPERVISED DEEP CANONICALLY CORRELATED AUTOENCODERS

[Tomenotti, Federico Figari](#), University of Genoa, Italy [Luppino, Luigi Tommaso](#), UiT The Arctic University of Norway, Norway [Hansen, Mads Adrian](#), UiT The Arctic University of Norway, Norway [Moser, Gabriele](#), University of Genoa, Italy [Anfinssen, Stian Normann](#), UiT The Arctic University of Norway, Norway

TU1.R12.9: GENERATING FLOOD PROBABILITY MAP BASED ON COMBINED USE OF SYNTHETIC APERTURE RADAR AND OPTICAL IMAGERY

[Jo, Minjeong](#), USRA/NASA-GSFC, United States [Osmanoglu, Batuhan](#), NASA Goddard Space Flight Center, United States

TU1.R12.10: A NOVEL APPROACH TO UNSUPERVISED SEGMENTATION OF MULTITEMPORAL VHR IMAGES BASED ON DEEP LEARNING

[Saha, Sudipan](#), Fondazione Bruno Kessler, Italy [Mou, Lichao](#), German Aerospace Center, Germany [Qiu, Chunping](#), Technical University of Munich, Germany [Zhu, Xiao Xiang](#), German Aerospace Center, Germany [Bovolo, Francesca](#), Fondazione Bruno Kessler, Italy [Bruzzone, Lorenzo](#), University of Trento, Italy

TU1.R12.11: SPARSE REPRESENTATION-BASED IMAGE FUSION FOR MULTI-SOURCE NDVI CHANGE DETECTION

[Zhang, Mengliang](#), Electronic Information School, Wuhan University, China [Chen, Yuerong](#), Electronic Information School, Wuhan University, China [Li, Song](#), Electronic Information School, Wuhan University, China [Tian, Xin](#), Electronic Information School, Wuhan University, China

TU1.R13 - Monitoring and Preservation of Natural Reserves and Coastal Areas

Tuesday, September 29, 05:00 - 07:00 • Room 13

TU1.R13.1: BUDD: MULTI-MODAL BAYESIAN UPDATING DEFORESTATION DETECTIONS

[Durieux, Alice](#), Descartes Labs, United States [Ren, Christopher](#), Los Alamos National

Laboratory, United States [Calef, Matthew](#), Descartes Labs, United States [Chartrand, Rick](#), Descartes Labs, United States [Warren, Michael](#), Descartes Labs, United States

TU1.R13.2: A RISK ASSESSMENT FRAMEWORK OF CYANOBACTERIA BLOOM USING LANDSAT DATA: A CASE STUDY OF LAKE LONGGAN (CHINA)

[Wang, Siji](#), Wuhan University, China [Zhang, Xiang](#), Wuhan University, China [Chen, Nengcheng](#), Wuhan University, China [Du, Wenying](#), Wuhan University, China [Hu, Chuli](#), China University of Geosciences, China [Yang, Chao](#), China University of Geosciences, China [Tan, Xicheng](#), Wuhan University, China

TU1.R13.3: SMALL SCALE SOIL EROSION SUSCEPTIBILITY MODELLING IN A PROTECTED MOUNTAINOUS GRASSLAND USING SENTINEL-2, FIELD, AND CLIMATE DATA

[Adagbasa, Efosa Gbenga](#), University of the Free State, South Africa [Adelabu, Samuel](#), University of the Free State, South Africa [Okello, Tom Were](#), University of the Free State, South Africa

TU1.R13.4: ANALYZING MANGROVE ZONATION DYNAMICS USING TIME-SERIES HIGH-RESOLUTION SATELLITE IMAGES

[Liu, Mingfeng](#), Chinese University of Hong Kong, China [Zhang, Hongsheng](#), University of Hong Kong, China [Wan, Luoma](#), Chinese University of Hong Kong, China [Lin, Yinyi](#), Chinese University of Hong Kong, China [Lin, Hui](#), Jiangxi Normal University, China

TU1.R13.5: REMOTE SENSING MONITORING OF MANGROVE VARIATION IN JIULONG RIVER ESTUARY OF FUJIAN FROM 1978 TO 2018

[He, Yun](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [You, Shucheng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Luo, Zhengyu](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Xiang](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Rui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU1.R13.6: MONITORING MANGROVE CHANGES IN TONGMING BAY OF CHINA USING MULTI- TEMPORAL SATELLITE REMOTE SENSING IMAGERY

[Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [He, Yun](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Gan, Yuhang](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Rui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [You, Shucheng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU1.R13.7: STRATEGIC CONSERVATION OF GULF COAST LANDSCAPES USING MULTI-CRITERIA DECISION ANALYSIS AND OPEN SOURCE REMOTE SENSING AND GIS DATA

[Samiappan, Sathishkumar](#), Mississippi State University, United States [Shamaskin, Andrew](#), Mississippi State University, United States [Liu, Jiangdong](#), Mississippi State University, United States [Linhoss, Anna](#), Mississippi State University, United States [Evans, Kristine](#), Mississippi State University, United States

TU1.R13.8: MONITORING CHANGES IN THE COASTAL ENVIRONMENT BASED ON SAR SENTINEL-1 TIME-SERIES

[Pelich, Ramona](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [Chini, Marco](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [Hostache, Renaud](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [Matgen, Patrick](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [López-Martínez, Carlos](#), Universitat Politècnica de Catalunya (UPC), Spain

TU1.R13.9: MEASUREMENT OF COASTAL LAND MOTION OF TIDE GAUGES AT KOREAN PENINSULA USING SEQUENTIAL SBAS-INSAR TECHNIQUE

[Palanisamy Vadivel, Suresh Krishnan](#), Seoul National University, Korea (South) [Kim, Duk-jin](#), Seoul National University, Korea (South) [Jung, Jungkyo](#), NASA Jet Propulsion Laboratory, Korea (South) [Cho, Yang-Ki](#), Seoul National University, Korea (South)

TU1.R13.10: A NEW ALGORITHM FOR ESTIMATING SURFACE ROUGHNESS USING INTERFEROMETRIC SYNTHETIC APERTURE RADAR (INSAR) DATA

[Wang, Ke](#), University of Texas at Austin, United States [Chen, Jingyi](#), University of Texas at Austin, United States [Kiaghadi, Amin](#), University of Texas at Austin, United States [Dawson, Clint](#), University of Texas at Austin, United States

**TU1.R14 - Passive Optical,
Hyperspectral Sensors and
Calibration I**

Tuesday, September 29, 05:00 - 07:00 • Room 14

TU1.R14.1: GROUND REFLECTANCE FACTOR RETRIEVAL FROM LANDSAT (MSS, TM, ETM+, AND OLI) TIME SERIES DATA BASED ON SEMI-EMPIRICAL LINE APPROACH AND PSEUDOINVARIANT TARGETS IN ARID LANDSCAPE

[Bannari, Abderrazak](#), Arabian Gulf University, Bahrain [Zahra, Al-Ali](#), Arabian Gulf University, Bahrain

TU1.R14.2: A HYPERSPECTRAL REFLECTANCE RECONSTRUCTION METHOD CONSIDERING SURFACE BRDF CHARACTERISTICS FOR AUTOMATIC MULTISPECTRAL RADIOMETER

[Ma, Lingling](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Wang, Ning](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Zhao, Yongguang](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Liu, Yaokai](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Wang, Xinhong](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Song, Peilan](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Li, Wan](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Li, Chuanrong](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Tang, Lingli](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China

TU1.R14.3: RETRIEVAL OF SOLAR-INDUCED CHLOROPHYLL FLUORESCENCE AT RED SPECTRAL PEAK WITH TROPOMI ON SENTINEL-5 PRECURSOR

[Zhao, Feng](#), Beihang University, China [Zhao, Jun](#), Beihang University, China [Ma, Weiwei](#), Beihang University, China [Huang, Yanbo](#), United States Department of Agriculture-Agricultural Research Service, United States [Naksomboon, Ratchanon](#), Beihang University, China [Li, Zhenjiang](#), Beihang University, China

TU1.R14.4: MULTISCALE AND MULTISENSOR OBSERVATIONS ON GEOTHERMAL AREA: 2019 ACQUISITIONS OVER PARCO DELLE BIANCANE AND SASSO PISANO (ITALY)

[Silvestri, Malvina](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Buongiorno, Maria Fabrizia](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Romaniello, Vito](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Marotta, Enrica](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Caputo, Teresa](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Bellucci Sessa, Eliana](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Belviso, Pasquale](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Avvisati, Gala](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Musacchio, Massimo](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Teggi, Sergio](#), Università di Modena e Reggio Emilia, Italy

TU1.R14.5: A COLOR RESTORATION ALGORITHM FOR THIN-FILM CAMERA IMAGES

[Du, Yanlei](#), Aerospace Information Research Institute, China [Yang, Xiaofeng](#), Aerospace Information Research Institute, China [Ma, Yiping](#), Beijing Municipal Commission of Planning and Natural Resources, China

TU1.R14.6: ON-ORBIT IMAGE SHARPNESS ASSESSMENT USING THE EDGE METHOD: METHODOLOGICAL IMPROVEMENTS FOR AUTOMATIC EDGE IDENTIFICATION AND SELECTION FROM NATURAL TARGETS

[Pampanoni, Valerio](#), Sapienza University of Rome, Italy [Cenci, Luca](#), Serco Italia SpA, Italy [Laneve, Giovanni](#), Sapienza University of Rome, Italy [Santella, Carla](#), SERCO Italia SpA, Italy [Boccia, Valentina](#), European Space Agency, Italy

TU1.R14.7: EVALUATION OF THE GF1-B/C/D SATELLITE RADIOMETRIC PERFORMANCE USING RADCALNET BAOTOU SITE

[Tang, Hongzhao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Tang, Xinming](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Xie, Junfeng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Li, Qi](#), Peking University, China

TU1.R14.8: ON-ORBIT GEOMETRIC CALIBRATION AND ACCURACY VERIFICATION OF HY-1C CZI

[Dai, Rongfan](#), China University of Geosciences, China [Xu, Lina](#), China University of Geosciences, China [Han, Jingyu](#), National Satellite Ocean Application Service, China

TU1.R14.9: PROGRESS TOWARD EVALUATING PRELAUNCH THERMAL VACUUM TESTS OF THE JPSS-2 CRIS INSTRUMENT

[Beierle, Peter](#), University of Maryland, United States [Iturbide-Sanchez, Flavio](#), National Oceanic and Atmospheric Administration, United States [Chen, Yong](#), Global Science and Technology Inc., United States [Tremblay, Denis](#), Global Science and Technology Inc., United States [Zhang, Kun](#), Global Science and Technology Inc., United States [Lynch, Erin](#), University of Maryland, United States [Johnson, David](#), National Aeronautics and Space Administration, United States [Suwinski, Lawrence](#), L3 Harris Technologies, United States

TU1.R14.10: A METHOD TO PROVIDE REDUNDANCY FOR THE ON-BOARD SPECTRAL CALIBRATION REFERENCE OF THE CRIS INSTRUMENT

[Iturbide-Sanchez, Flavio](#), National Oceanic and Atmospheric Administration, United States [Chen, Yong](#), Global Science and Technology, Inc. at NOAA/NESDIS/STAR, United States [Beierle, Peter](#), University of Maryland, United States [Tremblay, Denis](#), Global Science and Technology, Inc. at NOAA/NESDIS/STAR, United States [Jin, Xin](#), Global Science and Technology, Inc. at NOAA/NESDIS/STAR, United States [Johnson, David](#), National Aeronautics and Space Administration, United States [Predina, Joe](#), Logistikos Engineering LLC, United States [Strow, Larrabee](#), University of Maryland Baltimore County, United States [Tobin, David](#), University of Wisconsin-Madison, United States [Suwinski, Lawrence](#), L3 Harris Technologies, Inc., United States

TU1.R14.11: LIGHTGUIDE, INTEGRAL FIELD SNAPSHOT IMAGING SPECTROMETER FOR ENVIRONMENTAL IMAGING AND EARTH OBSERVATIONS

[Tkaczyk, Tomasz](#), Rice University, United States [Alexander, David](#), Rice University, United States [Flynn, Christopher](#), Rice University, United States [Lu, Jiawei](#), Rice University, United States [Wang, Ye](#), Rice University, United States [Stoian, Razvan](#), Rice University, United States [Zheng, Desheng](#), Rice University, United States

TU1.R14.12: IEEE P4001 HYPERSPECTRAL STANDARD IN 2019-2020: PROGRESS AND COOPERATION

[Durell, Christopher](#), Labsphere, Inc, United States

TU1.R15 - Remote Sensing Parameters and Models for Radiation Energy Budget

Tuesday, September 29, 05:00 - 07:00 • Room 15

TU1.R15.1: MODTRAN®6 GENERATED SINGLE SCATTERING ADJACENCY FUNCTION

[Berk, Alexander](#), Spectral Sciences, Inc., United States [Li, Fugjin](#), Geoscience Australia, Australia [Jupp, David](#), CSIRO, Australia

TU1.R15.2: MOON-BASED EARTH RADIATION BUDGET EXPERIMENT SITE SELECTION ANALYSIS BASED ON EARTH OBSERVATION GEOMETRY

[Ye, Hanlin](#), Qianxuesen Laboratory of Space Technology, China Academy of Space Technology, China [Guo, Huadong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liu, Guang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ping, Jinsong](#), National Astronomical Observatories, Chinese Academy of Sciences, China

TU1.R15.3: EVALUATION OF DOWNWARD SHORTWAVE RADIATION ESTIMATIONS OVER TROPICAL OCEAN SURFACE BASED ON BAYESIAN MODEL AVERAGING METHOD

[Zhang, Weiyu](#), Beijing Normal University, China [Zhang, Xiaotong](#), Beijing Normal University,

China [Wei, Yu](#), Beijing Normal University, China [Hou, Ning](#), Beijing Normal University, China [Xu, Jiawen](#), Beijing Normal University, China [Feng, Chunjie](#), Beijing Normal University, China [Jia, Kun](#), Beijing Normal University, China

TU1.R15.4: RADIATIVE TRANSFER MODELS FOR DERIVING GEOSTATIONARY BROADBAND SHORTWAVE RADIANCES DIRECTLY FROM VISIBLE CHANNELS FOR THE CERES SYN1DEG PRODUCT

[Doelling, David](#), NASA, United States [Wrenn, Forrest](#), SSAI, United States [Liang, Lusheng](#), SSAI, United States

TU1.R15.5: HIGH-RESOLUTION BRDF AND ALBEDO PARAMETERS INVERSION FROM SENTINEL-2 MULTISPECTRAL INSTRUMENT DATA

[Chen, Fang](#), Jiangsu Normal University, China [Li, Yingjie](#), Jiangsu Normal University, China [Ma, Qingmiao](#), Jiangsu Normal University, China [Li, Xin](#), Jiangsu Normal University, China [Chen, Jing](#), Sun Yat-Sen University, China [Li, Ming](#), Jiangsu Normal University, China [Gao, Chengzhi](#), Jiangsu Normal University, China [Yang, Xinyue](#), Jiangsu Normal University, China

TU1.R15.6: SHORTWAVE RADIATION BUDGET PRODUCTS FROM GOES-R SERIES ABI

[Kim, Hye-Yun](#), I. M. Systems Group, United States [Laszlo, Istvan](#), Center for Satellite Applications and Research, NOAA/NESDIS, United States [Liu, Hongqing](#), I. M. Systems Group, United States

TU1.R15.7: COMPARATIVE ASSESSMENT OF SOLAR RADIATION BY SATELLITE-BASED AND REANALYSIS PRODUCTS OVER VIETNAM REGIONS

[Pham, Nga T. T.](#), Vietnam Academy of Science and Technology, Viet Nam [Nguyen, Hao T. P.](#), Vietnam Academy of Science and Technology, Viet Nam [Nguyen, Cong T.](#), Vietnam Academy of Science and Technology, Viet Nam [Vu, Hang T.](#), Vietnam National University, Viet Nam [Pham, Ha T.](#), Vietnam National University, Viet Nam [Pham, Hoa V.](#), Vietnam Academy of Science and Technology, Viet Nam [Pham, Hong V.](#), Vietnam Academy of Science and Technology, Viet Nam [Nakamura, Kenji](#), Dokkyo University, Japan

TU1.R15.8: AN APPROACH TO ESTIMATE NET SURFACE SHORTWAVE RADIATION ON CLEAR-SKY DAYS IN RUGGED TERRAIN BASED ON REMOTE SENSING DATA

[Zhang, Yanli](#), Northwest Normal University, China

TU1.R15.9: LONG-TERM TRENDS OF ESTIMATED SURFACE INCIDENT SHORTWAVE RADIATION IN CHINA DURING 1970-2015

[Hou, Ning](#), Beijing Normal University, China [Zhang, Xiaotong](#), Beijing Normal University, China [Zhang, Weiyu](#), Beijing Normal University, China [Wei, Yu](#), Beijing Normal University, China [Xu, Jiawen](#), Beijing Normal University, China [Feng, Chunjie](#), Beijing Normal University, China

TU1.R15.10: ESTIMATION OF SURFACE ALBEDO BASED ON FY-3D MERSI-2 TOA DATA

[Zhao, Chunliang](#), Chinese Academy of Agricultural Sciences, China [Fan, Jinlong](#), China Meteorological Administration, China [Qin, Zhihao](#), Chinese Academy of Agricultural Sciences, China [Xu, Wenbo](#), University of Electronic Science and Technology of China, China [Du, Wenhui](#), Chinese Academy of Agricultural Sciences, China [Li, Shifeng](#), Chinese Academy of Agricultural Sciences, China [Bilawal, Abbasi](#), Chinese Academy of Agricultural Sciences, China [Bao, Kuanle](#), University of Electronic Science and Technology of China, China

TU1.R15.11: SCENE EDGE TARGET RECOVERY OF SCANNING RADAR ANGULAR SUPER-RESOLUTION BASED ON DATA EXTRAPOLATION

[Mao, Deqing](#), University of Electronic Science and Technology of China, China [Zhang, Yongchao](#), University of Electronic Science and Technology of China, China [Kang, Yao](#), University of Electronic Science and Technology of China, China [Zhang, Yin](#), University of Electronic Science and Technology of China, China [Huo, Weibo](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

TU1.R15.12: 3D FDTD INVESTIGATION ON BISTATIC SCATTERING FROM 2D ROUGH SURFACE WITH CPML ABSORBING CONDITION

[Liao, Shan](#), University of Electronic Science and Technology of China, China [Gao, Bo](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of

Electronic Science and Technology of China, China [Li, Ming](#), University of Electronic Science and Technology of China, China [Yang, Xun](#), University of Electronic Science and Technology of China, China [Li, Yu](#), University of Electronic Science and Technology of China, China [Luo](#),

TU1.R16 - POLSAR Analytic Techniques

Tuesday, September 29, 05:00 - 07:00 • Room 16

TU1.R16.1: FURTHER INSIGHTS ON THE EFFECTS OF SURFACTANTS ON INTERNAL WAVE SAR SIGNATURES BY MEANS OF THE CO-POLARIZED PHASE DIFFERENCE

[de Macedo, Carina Regina](#), University of Porto, Portugal [Bastos da Silva, José Carlos](#), University of Porto, Portugal

TU1.R16.2: DUAL POLARIMETRIC SAR COVARIANCE MATRIX ESTIMATION USING DEEP LEARNING

[Mullissa, Adugna](#), Wageningen University, Netherlands [Marcos, Diego](#), Wageningen University, Netherlands [Herold, Martin](#), Wageningen University, Netherlands [Reiche, Johannes](#), Wageningen University, Netherlands

TU1.R16.3: ANALYSIS OF POLARIZATION ORIENTATION ANGLE ESTIMATION OF X-BAND POLSAR DATA AND EXPERIMENT INVESTIGATION

[Suo, Zhiyong](#), Xidian University, China [Guo, Yuan](#), Xidian University, China [Liao, Zhiqiang](#), Sichuan Aerospace Electronic Equipment Research Institute, China

TU1.R16.4: POLSAR IMAGE CLASSIFICATION VIA ROBUST LOW-RANK FEATURE EXTRACTION AND MARKOV RANDOM FIELD

[Bi, Haixia](#), University of Bristol, United Kingdom [Santos-Rodriguez, Raul](#), University of Bristol, United Kingdom [Flach, Peter](#), University of Bristol, United Kingdom

TU1.R16.5: COMPARISON OF TARGET DETECTION RESULTS IN A FOREST WHETHER THE BRANCHES ARE COVERED WITH SNOW BASED ON P-BAND AIRBORNE SAR QUAD-POL IMAGES

[Li, Peng](#), University of Chinese Academy of Sciences, China [Liu, Dacheng](#), Department of Space Microwave Remote Sensing System, China [Wang, Robert](#), Department of Space Microwave Remote Sensing System, China [Deng, Yunkai](#), Department of Space Microwave Remote Sensing System, China [Zhao, Fengjun](#), Department of Space Microwave Remote Sensing System, China

TU1.R16.6: METRIC LEARNING BASED FINE-GRAINED CLASSIFICATION FOR POLSAR IMAGERY

[Ni, Jun](#), Beijing University of Chemical Technology, China [Jia, Yunzhe](#), Beijing University of Chemical Technology, China [Yin, Qiang](#), Beijing University of Chemical Technology, China [Zhou, Yongsheng](#), Beijing University of Chemical Technology, China [Zhang, Fan](#), Beijing University of Chemical Technology, China

TU1.R16.7: SYNERGIC USE OF SAR AND OPTICAL DATA FOR ESTIMATION OF SOIL MOISTURE IN VEGETATIVE REGION

[Verma, Nidhi](#), Indian Institute of Information Technology Allahabad, India [Mishra, Pooja](#), Indian Institute of Information Technology Allahabad, India [Purohit, Neetesh](#), Indian Institute of Information Technology Allahabad, India

TU1.R16.8: STUDY ON POLARIMETRIC SCATTERING CHARACTERISTICS BASED ON DIFFERENT BAND SAR IMAGES

[Luo, Zheng Yu](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [You, Shu Cheng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Gan, Yu Hang](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Liu, Ke](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Li, Chang](#), National Quality Inspection and Testing Center for Surveying and Mapping Products, China [He, Yun](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU1.R16.9: ISCE DOCKER TOOLS: AUTOMATED RADIOMETRIC TERRAIN CORRECTION AND IMAGE COREGISTRATION OF UAVSAR MLC DATA

[Kraatz, Simon](#), University of Massachusetts at Amherst, United States [Siqueira, Paul](#),

University of Massachusetts at Amherst, United States [Rose, Shannon](#), University of Massachusetts at Amherst, United States

[TU1.R16.10: SYNERGETIC USE OF MORPHOLOGICAL AND RADAR PARAMETER FOR LUNAR WATER ICE DETECTION](#)

[Shroff, Urvi](#), CEPT University, India [Dave, Bindi](#), CEPT University, India [Mohan, Shiv](#), PLANEX-PRL, India

[TU1.R16.11: PORT DETECTION IN POLARIMETRIC SAR IMAGES BASED ON THREE-COMPONENT DECOMPOSITION](#)

[Liu, Chun](#), Northwestern Polytechnical University, China [Zheng, Jiangbin](#), Northwestern Polytechnical University, China [Nie, Xuan](#), Northwestern Polytechnical University, China

TU1.R17 - Machine Learning for Tuesday, September 29, 05:00 - 07:00 • Room 17 Earth Observation I

[TU1.R17.1: MULTI-OBJECTIVE OPTIMIZATION FOR ACTIVE SENSOR FUSION](#)

[Haan, Sebastian](#), University of Sydney, Australia [Ramos, Fabio](#), University of Sydney, Australia [Muller, Dietmar](#), University of Sydney, Australia

[TU1.R17.2: TRAINING GENERAL REPRESENTATIONS FOR REMOTE SENSING USING IN-DOMAIN KNOWLEDGE](#)

[Neumann, Maxim](#), Google, Switzerland [Pinto, Andre Susano](#), Google, Switzerland [Zhai, Xiaohua](#), Google, Switzerland [Houlsby, Neil](#), Google, Switzerland

[TU1.R17.3: REMOTE SENSING IMAGE CAPTIONING WITH SVM-BASED DECODING](#)

[Hoxha, Genc](#), University of Trento, Italy [Melgani, Farid](#), University of Trento, Italy

[TU1.R17.4: VISUAL LOCALIZATION BASED ON REMOTE SENSING SCENE MATCHING WITH SIAMESE FEATURE AGGREGATION NETWORK](#)

[Chen, Wang](#), Northwestern Polytechnical University, China [Yuan, Yuan](#), Northwestern Polytechnical University, China [Liu, Ganchao](#), Northwestern Polytechnical University, China

[TU1.R17.5: STEREO MATCHING OF VHR REMOTE SENSING IMAGES VIA BIDIRECTIONAL PYRAMID NETWORK](#)

[Tao, Rongshu](#), Chinese Academy of Sciences, China [Xiang, Yuming](#), Chinese Academy of Sciences, China [You, Hongjian](#), Chinese Academy of Sciences, China

[TU1.R17.6: ANGULAR LUMINANCE FOR MATERIAL SEGMENTATION](#)

[Xue, Jia](#), Rutgers University, United States [Purri, Matthew](#), Rutgers University, United States [Dana, Kristin](#), Rutgers University, United States

[TU1.R17.7: REMOTE SENSING IMAGE SEGMENTATION METHOD BASED ON HRNET](#)

[Cheng, Zhi](#), Huanggang Polytechnic College, China [Fu, Daocai](#), University of Electronic Science and Technology of China, China

[TU1.R17.8: MULTI SEASONAL DEEP LEARNING CLASSIFICATION OF VENUS IMAGES](#)

[Faran, Ido](#), Bar Ilan University, Israel [Netanyahu, Nathan](#), Bar Ilan University, Israel [David, Eli](#), Bar Ilan University, Israel [Rud, Ronit](#), Technion Israel Institute of Technology, Israel [Shoshany, Maxim](#), Technion Israel Institute of Technology, Israel

[TU1.R17.9: TRANSLATING MULTISPECTRAL IMAGERY TO NIGHTTIME IMAGERY VIA CONDITIONAL GENERATIVE ADVERSARIAL NETWORKS](#)

[Huang, Xiao](#), University of South Carolina, United States [Xu, Dong](#), East China Normal University, China [Li, Zhenlong](#), University of South Carolina, United States [Wang, Cuizhen](#), University of South Carolina, United States

[TU1.R17.10: A DEEP LEARNING MODEL FOR OCEANIC MESOSCALE EDDY DETECTION BASED ON MULTI-SOURCE REMOTE SENSING IMAGERY](#)

[Liu, Yingjie](#), Institute of Oceanology, Chinese Academy of Sciences, China [Li, Xiaofeng](#), Institute of Oceanology, Chinese Academy of Sciences, United States [Ren, Yibin](#), Institute of Oceanology, Chinese Academy of Sciences, China

[TU1.R17.11: IDENTIFICATION OF ARCHAEOLOGICAL LAND USE EMPLOYING DEEP LEARNING TECHNIQUES: PROSPECTIVE STUDY WITHIN MEXICO](#)

[Villalon-Turrubiates, Ivan](#), Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO,

Mexico [Llovera-Torres, Maria](#), Universidad Autónoma de San Luis Potosí (UASLP), Mexico**TU1.R18 - Target Detection using SAR Data**

Tuesday, September 29, 05:00 - 07:00 • Room 18

[TU1.R18.1: FUSION OF LINEAR AND NONLINEAR CLASSIFIERS FOR KERNEL DICTIONARY LEARNING: APPLICATION TO SAR TARGET RECOGNITION](#)[Tao, Lei](#), Shanghai Jiao Tong University, China [Jiang, Xue](#), Shanghai Jiao Tong University, China [Li, Zhou](#), Beijing Institute of Remote Sensing Information, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China**[TU1.R18.2: TRIPWIRE DETECTION IN SAR IMAGES USING A MODIFIED RADON TRANSFORM](#)**[Schartel, Markus](#), Ulm University, Germany [Grathwohl, Alexander](#), Ulm University, Germany [Schmid, Christopher](#), Ulm University, Germany [Burr, Ralf](#), Ulm University of Applied Sciences, Germany [Waldschmidt, Christian](#), Ulm University, Germany**[TU1.R18.3: CASE STUDIES WITH SAR DATA FOR ASSESSING THE UTILITY OF MANUAL FEATURE SELECTION IN MACHINE LEARNING](#)**[Gray, Kyle](#), National Geospatial-Intelligence Agency, United States [Mitchell, Thomas](#), National Geospatial-Intelligence Agency, United States [Schwartzkopf, Wade](#), National Geospatial-Intelligence Agency, United States**[TU1.R18.4: INCREMENTAL MULTITASK SAR TARGET RECOGNITION WITH DOMINANT NEURON PRESERVATION](#)**[Liu, Yingbing](#), Beijing University Of Chemical Technology, China [Zhang, Fan](#), Beijing University Of Chemical Technology, China [Ma, Fei](#), Beijing University Of Chemical Technology, China [Yin, Qiang](#), Beijing University Of Chemical Technology, China [Zhou, Yongsheng](#), Beijing University Of Chemical Technology, China**[TU1.R18.5: SALIENCY-DRIVEN TARGET DETECTION BASED ON COMMON VISUAL FEATURE CLUSTERING FOR MULTIPLE SAR IMAGES](#)**[Wang, Shan](#), Beijing Normal University, China [Sun, Qiaoyue](#), Beijing Normal University, China [Ma, Sijia](#), Beijing Normal University, China [Zhang, Libao](#), Beijing Normal University, China**[TU1.R18.6: AN INTEGRATED SAR SPECKLE REDUCTION AND TARGET DETECTION APPROACH](#)**[Chen, Si-Wei](#), National University of Defense Technology, China [Cui, Xing-Chao](#), National University of Defense Technology, China [Wang, Xue-Song](#), National University of Defense Technology, China [Xiao, Shun-Ping](#), National University of Defense Technology, China**[TU1.R18.7: HUMAN BODY RECOGNITION METHOD USING DIFFRACTION SIGNAL IN NLOS SCENARIO FOR MILLIMETER WAVE RADAR](#)**[He, Jianghaomiao](#), University of Electro-Communications, China [Terashima, Shota](#), Mazda Motor Corp. Japan, Japan [Yamada, Hideyuki](#), Mazda Motor Corp. Japan, Japan [Kidera, Shouhei](#), University of Electro-Communications, Japan**[TU1.R18.8: MICRO GESTURE RECOGNITION WITH TERAHERTZ RADAR BASED ON DIAGONAL PROFILE OF RANGE-DOPPLER MAP](#)**[Wang, Xing](#), University of Electronic Science and Technology of China, China [Min, Rui](#), University of Electronic Science and Technology of China, China [Cui, Zongyong](#), University of Electronic Science and Technology of China, China [Cao, Zongjie](#), University of Electronic Science and Technology of China, China**[TU1.R18.9: SHIP DETECTION BASED ON SUPERPIXELWISE LOCAL CONTRAST MEASUREMENT FOR POLSAR IMAGES](#)**[Li, Tao](#), Hangzhou Dianzi University, China [Peng, Dongliang](#), Hangzhou Dianzi University, China [Guo, Baofeng](#), Hangzhou Dianzi University, China [Chen, Zhikun](#), Hangzhou Dianzi University, China [Fang, Feng](#), Hangzhou Dianzi University, China**[TU1.R18.10: MULTI-VIEW FUSION BASED ON EXPECTATION MAXIMIZATION FOR SAR TARGET RECOGNITION](#)**[Zhang, Yukun](#), University of Electronic Science and Technology of China, China [Guo, Xiansheng](#), University of Electronic Science and Technology of China, China [Ren, Haohao](#),

University of Electronic Science and Technology of China, China [Wan, Qun](#), University of Electronic Science and Technology of China, China [Shen, Xiaofeng](#), University of Electronic Science and Technology of China, China

TU1.R18.11: MULTI-ANGULAR SAR STATISTICAL PROPERTIES ANALYSIS AND MAN-MADE TARGET DETECTION

[Teng, Fei](#), University of Chinese Academy of Sciences, China [Lin, Yun](#), North China University of Technology, China [Wang, Yanping](#), North China University of Technology, China [Shen, Wenjie](#), University of Chinese Academy of Sciences, China [Feng, Shanshan](#), University of Chinese Academy of Sciences, China [Hong, Wen](#), Chinese Academy of Sciences, China

TU1.R19 - Clouds and Numerical Weather Prediction Tuesday, September 29, 05:00 - 07:00 • Room 19

TU1.R19.1: AN INVESTIGATION OF A PROBABILISTIC NOWCAST SYSTEM FOR DUAL-POLARIZATION RADAR APPLICATIONS

[Zhang, Jianchang](#), Ocean University of China, China [Chen, Haonan](#), NOAA Physical Sciences Laboratory, United States [Han, Lei](#), Ocean University of China, China

TU1.R19.2: ASSIMILATION OF FY3D COMBINED MICROWAVE SOUNDER OBSERVATION IN ATMS ALIKE ONE DATA STREAM

[Dong, Peiming](#), Chinese Academy of Meteorological Sciences, China [Yang, Jun](#), Chinese Academy of Meteorological Sciences, China [Weng, Fuzhong](#), Chinese Academy of Meteorological Sciences, China [Huang, Qien](#), Chinese Academy of Meteorological Sciences, China [Kan, Wanlin](#), Chinese Academy of Meteorological Sciences, China

TU1.R19.3: GAN-GENERATED ELEVATION MODELS IN COMPUTATIONAL FLUID DYNAMICS: A FEASIBILITY STUDY FOR COMPLEX URBAN TERRAIN

[Langheinrich, Maximilian](#), German Aerospace Center (DLR), Germany [Bittner, Ksenia](#), German Aerospace Center (DLR), Germany [Reinartz, Peter](#), German Aerospace Center (DLR), Germany

TU1.R19.4: A SIMULATING METHOD OF AIRSHIP-BORNE POLARIMETRIC WEATHER RADAR FOR TYPHOON OBSERVATION

[Zhao, Zewei](#), Beijing Institute of Technology, China [Dong, Xichao](#), Beijing Institute of Technology, China [Feng, Jianing](#), Chinese Academy of Meteorological Sciences, China [Liang, Xudong](#), Chinese Academy of Meteorological Sciences, China [Hu, Cheng](#), Beijing Institute of Technology, China

TU1.R19.5: ANALYSIS OF MICROWAVE SCATTERING PROPERTIES OF NON-SPHERICAL ICE PARTICLES USING DISCRETE DIPOLE APPROXIMATION

[Yang, Jun](#), Chinese Academy of Meteorological Sciences, China [Weng, Fuzhong](#), Chinese Academy of Meteorological Sciences, China

TU1.R19.6: ASSIMILATION OF GNSS-R DELAY-DOPPLER MAPS INTO WEATHER MODELS

[Huang, Feixiong](#), Purdue University, United States [Garrison, James](#), Purdue University, United States [Leidner, Mark](#), Atmospheric and Environmental Research, United States [Annane, Bachir](#), Cooperative Institute for Marine and Atmospheric Studies, United States [Grieco, Giuseppe](#), Royal Netherlands Meteorological Institute, Netherlands [Stoffelen, Ad](#), Royal Netherlands Meteorological Institute, Netherlands [Hoffman, Ross](#), Atmospheric and Environmental Research, United States

TU1.R19.7: GENERATION, APPLICATION AND EVALUATION OF GF-1 WFV CLOUD DETECTION METHOD BASED CDAG ALGORITHM

[Wang, Kai](#), ShanDong University of Science and Technology, China [Chen, Tingting](#), ShanDong University of Science and Technology, China [Mi, Xueting](#), ShanDong University of Science and Technology, China

TU1.R19.8: AN ALGORITHM TO REMOVE THIN CLOUDS BUT TO PRESERVE GROUND FEATURES IN VISIBLE BANDS

[Shan, Shuai](#), University of Electronic Science and Technology of China, China [Wang, Yong](#), East Carolina University, United States

TU1.R19.9: IMPROVEMENT OF A CIRRUS CORRECTION EMPIRICAL METHOD WITH

SENTINEL-2 DATA

[Salgado, Sandra](#), ONERA, France [Poutier, Laurent](#), ONERA, France [Mathieu, Sandrine](#), Thales Alenia Space, France [Briottet, Xavier](#), ONERA, France

TU1.R19.10: COMPARISON OF MODIS CLOUD MASK PRODUCTS WITH GROUND-BASED MILLIMETER-WAVE RADAR

[Huo, Juan](#), Institute of Atmospheric Physics, China [Han, Congzheng](#), Institute of Atmospheric Physics, China

TU1.R19.11: DESIGN AND DEVELOPMENT OF GROUND-BASED MICROWAVE RADIOMETER FOR METEOROLOGICAL AND CLIMATE APPLICATIONS

[He, Jieying](#), National Space Science Center, Chinese Academy of Sciences, China [Chen, Haonan](#), NOAA Earth System Research Laboratory, United States [Zhang, Shengwei](#), National Space Science Center, Chinese Academy of Sciences, China

TU1.R19.12: POLARIMETRIC RADAR MEASUREMENTS AND RAINFALL PERFORMANCE DURING A SEVERE RAINFALL EVENT IN COMPLEX TERRAIN OVER EASTERN CHINA

[Gou, Yabin](#), Hangzhou Meteorological Bureau, China [Wang, Zhangwei](#), Zhejiang Meteorological Administration, China [Hu, Yunli](#), Hangzhou Meteorological Bureau, China [Chen, Haonan](#), NOAA Earth System Research Laboratory, United States [He, Jieying](#), National Space Science Center, China

TU1.R20 - Student Paper Contest Finalists I

Tuesday, September 29, 05:00 - 07:00 • Room 20

TU1.R20.1: SUN GLINT REMOVAL OF HYPERSPECTRAL IMAGES VIA TEXTURE-AWARE TOTAL VARIATION

[Duan, Puhong](#), Hunan University, China [Kang, Jian](#), Technical University of Berlin, Germany [Kang, Xudong](#), Hunan University, China [Ghamisi, Pedram](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Li, Shutao](#), Hunan University, China

TU1.R20.2: REMOTE SENSING IMAGE SPATIO-TEMPORAL FUSION VIA A GENERATIVE ADVERSARIAL NETWORK THROUGH ONE PRIOR IMAGE PAIR

[Song, Yiyao](#), Wuhan University, China [Zhang, Hongyan](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

TU1.R20.3: NEW ALGORITHM FOR NEAR-FIELD ISAR IMAGING

[Fu, Jixiang](#), Xidian University, China; Villanova University, United States [Lan, Yang](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Sun, Guangcai](#), Xidian University, China

TU1.R20.4: SPATIAL BIAS CORRECTION OF SOCIAL MEDIA DATA BY EXPLOITING REMOTE SENSING KNOWLEDGE IN DATA-DEFICIENT REGIONS

[Liu, Zhenjie](#), Sun Yat-sen University, China [Li, Jun](#), Sun Yat-sen University, China [Plaza, Javier](#), University of Extremadura, Spain [Plaza, Antonio](#), University of Extremadura, Spain

TU1.R20.5: A NON-MODEL BASED THREE COMPONENT SCATTERING POWER DECOMPOSITION FOR FULL POLARIMETRIC SAR DATA

[Dey, Subhadip](#), Indian Institute of Technology Bombay, India [Ratha, Debanshu](#), Indian Institute of Technology Bombay, India [Mandal, Dipankar](#), Indian Institute of Technology Bombay, India [Bhattacharya, Avik](#), Indian Institute of Technology Bombay, India [Frery, Alejandro C.](#), Universidade Federal de Alagoas, Brazil

TU2.R1 - NASA Soil Moisture Active Passive Mission Extended Phase Observations and Results

Tuesday, September 29, 07:30 - 09:30 • Room 1

TU2.R1.1: SMAP MISSION STATUS AND PLAN

[Yueh, Simon](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Entekhabi, Dara](#), MIT, United States [O'Neill, Peggy](#), NASA Goddard Space Flight Center, United States [Entin, Jared](#), NASA HQ, United States [Garcia, Mark](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

TU2.R1.2: ASSESSMENT OF THE IMPACTS OF NEAR REAL-TIME VEGETATION CORRECTION ON PASSIVE SOIL MOISTURE PRODUCT PERFORMANCE

[Chan, Steven](#), NASA Jet Propulsion Laboratory, United States [Bindlish, Rajat](#), NASA Goddard Space Flight Center, United States [O'Neill, Peggy](#), NASA Goddard Space Flight Center, United States

TU2.R1.3: SMAP ESTIMATES AND SCIENCE APPLICATIONS OF VEGETATION OPTICAL DEPTH FOR GLOBAL ECOLOGY AND AGROECOSYSTEMS MONITORING

[Entekhabi, Dara](#), MIT, United States

TU2.R1.4: SMAP MICROWAVE RADIOMETER CALIBRATION REVISIT APPROACHES AND PERFORMAMNCE

[Peng, Jinzheng](#), NASA Goddard Space Flight Center / Universities Space Research Center, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Piepmeier, Jeffrey](#), NASA Goddard Space Flight Center, United States [Yueh, Simon](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Mohammed, Priscilla](#), NASA Goddard Space Flight Center, United States [Le Vine, David](#), NASA Goddard Space Flight Center, United States [Dinnat, Emmanuel](#), NASA Goddard Space Flight Center, United States [Meissner, Thomas](#), Remote Sensing Systems, United States

TU2.R1.5: SATELLITE FLOOD ASSESSMENT AND FORECASTS FROM SMAP AND LANDSAT

[Du, Jinyang](#), University of Montana, United States [Kimball, John](#), University of Montana, United States [Sheffield, Justin](#), University of Southampton, United Kingdom [Pan, Ming](#), Princeton University; Princeton Climate Analytics, United States [Fisher, Colby](#), Princeton Climate Analytics, United States [Beck, Hylke](#), Princeton University; Princeton Climate Analytics, United States [Wood, Eric](#), Princeton University; Princeton Climate Analytics, United States

TU2.R1.6: SMAP VALIDATION EXPERIMENT 2019-2021 (SMAPVEX19/21): DETECTION OF SOIL MOISTURE UNDER FOREST CANOPY

[Colliander, Andreas](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Cosh, Michael H.](#), USDA ARS Hydrology and Remote Sensing Laboratory, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Bourgeau-Chavez, Laura](#), Michigan Tech Research Institute, United States [Kelly, Vicky](#), Cary Institute of Ecosystem Studies, United States [Siqueira, Paul](#), University of Massachusetts Amherst, United States [Roy, Alexandre](#), University of Quebec at Trois-Rivieres, Canada [Lakhankar, Tarendra](#), City College of New York, United States [Kraatz, Simon](#), University of Massachusetts Amherst, United States [Konings, Alexandra G.](#), Stanford University, United States [Holtzman, Natan](#), Stanford University, United States [Kurum, Mehmet](#), Mississippi State University, United States [Entekhabi, Dara](#), Massachusetts Institute of Technology, United States [O'Neill, Peggy](#), NASA Goddard Space Flight Center, United States [Yueh, Simon](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

TU2.R2 - Monitoring and Damage Tuesday, September 29, 07:30 - 09:30 • Room 2
Assessment of Natural Disasters
II

TU2.R2.1: POST-FIRE ASSESSMENT OF BURNED AREAS WITH LANDSAT-8 AND SENTINEL-2 IMAGERY TOGETHER WITH MODIS AND VIIRS ACTIVE FIRE PRODUCTS

[Angelino, Cesario Vincenzo](#), Centro Italiano Ricerche Aerospaziali, Italy [Cicala, Luca](#), Centro Italiano Ricerche Aerospaziali, Italy [Parrilli, Sara](#), Centro Italiano Ricerche Aerospaziali, Italy [Fiscante, Nicomino](#), Università degli Studi del Sannio, Italy [Ullo, Silvia Liberata](#), Università degli Studi del Sannio, Italy

TU2.R2.2: THE ACTIVE MICROWAVE DATA-BASED ANALYSIS OF FIRE RISK IN THE WILDLAND-URBAN INTERFACE

[Tan, Longfei](#), Sichuan Fire Research Institute of Ministry of Emergency Management, China [Tong, Ling](#), University of Electronic Science and Technology of China, China [Yang, Ting](#), Sichuan University, West China School of Public Health and West China Fourth Hospital,

China [Yang, Xun](#), University of Electronic Science and Technology of China, China

[TU2.R2.3: ASSESSMENT OF THE EFFECT OF PROSAILH FOR OPEN AND CLOSED SHRUBLANDS LIVE FUEL MOISTURE CONTENT RETRIEVAL](#)

[Lai, Gengke](#), University of Electronic Science and Technology of China, China [Quan, Xingwen](#), University of Electronic Science and Technology of China, China [He, Binbin](#), University of Electronic Science and Technology of China, China

[TU2.R2.4: EVALUATION OF HIMAWARI-8 FOR LIVE FUEL MOISTURE CONTENT RETRIEVAL](#)

[Zhu, Ying](#), University of Electronic Science and Technology of China, China [Liu, Xiangzhuo](#), INRAE, UMR1391 ISPA, France [Lai, Gengke](#), University of Electronic Science and Technology of China, China [Quan, Xingwen](#), University of Electronic Science and Technology of China, China

[TU2.R2.5: MONITORING THE 2019 AGRICULTURAL DROUGHT IN THE STATE OF SAN LUIS POTOSI, MEXICO](#)

[Origel-Gutiérrez, Gabriel](#), Universidad Autónoma del Estado de México, Mexico [Pérez-Flores, Anabell](#), Universidad Nacional Autónoma de México, Mexico

[TU2.R2.6: ACCURATE INSAR SURFACE DEFORMATION MAPPING OVER THE OIL-PRODUCING PERMIAN BASIN WITH AUTOMATED TROPOSPHERIC OUTLIER REMOVAL](#)

[Staniewicz, Scott](#), University of Texas at Austin, United States [Chen, Jingyi](#), University of Texas at Austin, United States

[TU2.R2.7: EVALUATING TREES CROWNS DAMAGE FOR THE 2017 LARGEST WILDFIRE IN JAPAN USING SENTINEL-2A NDMI](#)

[Emang, Grace Puyang](#), Tohoku University, Japan [Touge, Yoshiya](#), Tohoku University, Japan [Kazama, So](#), Tohoku University, Japan

[TU2.R2.8: A REMOTE SENSING AND METEOROLOGICAL DATA-BASED METHODOLOGY FOR WILDFIRE DANGER ASSESSMENT FOR CHINA](#)

[Xie, Qian](#), University of Electronic Science and Technology of China, China [Quan, Xingwen](#), University of Electronic Science and Technology of China, China [He, Binbin](#), University of Electronic Science and Technology of China, China

[TU2.R2.9: A MACHINE LEARNING SOLUTION FOR OPERATIONAL REMOTE SENSING OF ACTIVE WILDFIRES](#)

[McCarthy, Nicholas F.](#), One Concern, Inc., United States [Tohidi, Ali](#), One Concern, Inc., United States [Valero, M. Miguel](#), One Concern, Inc., United States [Dennie, Matt](#), One Concern, Inc., United States [Aziz, Yawar](#), One Concern, Inc., United States [Hu, Nicole](#), One Concern, Inc., United States

[TU2.R2.10: FIRE RISK ANALYSIS BY USING SENTINEL-2 DATA: THE CASE STUDY OF THE VESUVIUS IN CAMPANIA, ITALY](#)

[Dell'Aglio, Domenico Antonio Giuseppe](#), University of Naples Federico II, Italy [Gargiulo, Massimiliano](#), University of Naples Federico II, Italy [Iodice, Antonio](#), University of Naples Federico II, Italy [Riccio, Daniele](#), University of Naples Federico II, Italy [Ruello, Giuseppe](#), University of Naples Federico II, Italy

[TU2.R2.11: AUTOMATIC GENERATION OF DECISION SUPPORT REPORT FOR DISASTER RESPONSE USING REMOTE SENSING AND SDI](#)

[Fang, Zhe](#), Wuhan University, China [Yue, Peng](#), Wuhan University, China [Huang, Qiujuan](#), Dongfeng Changxing Technology Co., Ltd, China [Hu, Lei](#), Wuhan University, China [Jiang, Liangcun](#), Wuhan University, China [Zhang, Mingda](#), Wuhan University, China

[TU2.R2.12: ADAPTING 3-PG MODEL TO SIMULATE EARLY FOREST GROWTH DYNAMICS IN HIGHLY BURNT AREAS ACROSS DAXING ANLING MOUNTAIN IN CHINA](#)

[Lin, Simei](#), Beijing forestry university, China [Huang, Huaguo](#), Beijing forestry university, China [Tian, Xin](#), Chinese Academy of Forestry, China

TU2.R3 - Differential SAR Interferometry I

Tuesday, September 29, 07:30 - 09:30 • Room 3

[TU2.R3.1: INSAR PHASE REDUCTION USING THE REMOVE-COMPUTE-RESTORE METHOD](#)

[Heuff, Floris](#), Delft University of Technology, Netherlands [Hanssen, Ramon](#), Delft University of Technology, Netherlands

[TU2.R3.2: A TIME-SERIES CLUSTERING APPROACH FOR ATMOSPHERIC PROPAGATION DELAY COMPENSATION IN GROUND-BASED RADAR INTERFEROMETRY](#)

[Izumi, Yuta](#), Tohoku University, Japan [Nico, Giovanni](#), Consiglio Nazionale delle Ricerche, Italy [Sato, Motoyuki](#), Tohoku University, Japan

[TU2.R3.3: A POLARIMETRIC APPROACH FOR MULTIPATH SUPPRESSION/ MITIGATION IN GROUND-BASED INTERFEROMETRIC RADAR IMAGING](#)

[Pieraccini, Massimiliano](#), University of Florence, Italy [Miccinesi, Lapo](#), University of Florence, Italy

[TU2.R3.4: A GENERALIZED-SVD-BASED TECHNIQUE FOR ENHANCING PERFORMANCE OF MULTI-TEMPORAL DINSAR ANALYSES: THE WEIGHTED ADAPTIVE VARIABLE-LENGTH \(WAVE\) TECHNIQUE](#)

[Falabella, Francesco](#), University of Basilicata (UNIBAS), Italy [Serio, Carmine](#), University of Basilicata (UNIBAS), Italy [Zeni, Giovanni](#), Institute for the Electromagnetic Sensing of the Environment (IREA), National Research Council (CNR), Italy [Pepe, Antonio](#), Institute for the Electromagnetic Sensing of the Environment (IREA), National Research Council (CNR), Italy

[TU2.R3.5: POTENTIAL OF AN AUTOMATIC GROUNDING ZONE CHARACTERIZATION USING WRAPPED INSAR PHASE](#)

[Parizzi, Alessandro](#), German Aerospace Center (DLR), Germany

[TU2.R3.6: PS-INSAR TARGET CLASSIFICATION USING DEEP LEARNING](#)

[Aguilar, Pedro](#), University of Trás-os-Montes e Alto Douro, Portugal [Cunha, António](#), University of Trás-os-Montes e Alto Douro, Portugal [Bakon, Matus](#), insar.sk Ltd, Slovakia [Ruiz-Armenteros, Antonio M.](#), University of Jaén, Spain [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

[TU2.R3.7: SUBSIDENCE MONITORING ALONG RAVENNA COASTAL AREA \(NORTHERN ITALY\) BY INSAR AND GPS DATA](#)

[Polcari, Marco](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Anderlini, Letizia](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Albano, Matteo](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Pezzo, Giuseppe](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Secreti, Valeria](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Serpelloni, Enrico](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Salvatore, Stramondo](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Elisa, Trasatti](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy

[TU2.R3.8: MONITORING COMPLEX SURFACE STRUCTURE BY SEVERAL INTERFEROMETRIC STACKING TECHNIQUES WITH PALSAR-1 DATA](#)

[Ogushi, Fumitaka](#), Tokyo Institute of Technology, Japan [Matsuoka, Masashi](#), Tokyo Institute of Technology, Japan [Defilippi, Marco](#), sarmap S.A., Switzerland [Pasquali, Paolo](#), sarmap S.A., Switzerland

[TU2.R3.9: THE CORRECTION OF PHASE UNWRAPPING ERRORS IN SEQUENCES OF MULTI-TEMPORAL DIFFERENTIAL SAR INTERFEROGRAMS](#)

[Pepe, Antonio](#), IREA-CNR, Italy [Pepe, Antonio](#), CNR-IREA, Italy

[TU2.R3.10: MULTIPASS SAR PROCESSING FOR RADAR DEPTH SOUNDER CLUTTER SUPPRESSION, TOMOGRAPHIC PROCESSING, AND DISPLACEMENT MEASUREMENTS](#)

[Miller, Bailey](#), University of Kansas, United States [Ariho, Gordon](#), University of Kansas, United States [Paden, John](#), University of Kansas, United States [Arnold, Emily](#), University of Kansas, United States

[TU2.R3.11: THE STUDY OF PLATFORM FLUCTUATION EFFECT FOR HIGH SQUINT FMCW SAR AND ISAR](#)

[Chiang, Cheng-Yen](#), National Taipei University of Technology, Taiwan [Takaoka, Shun-Ichi](#), National Taipei University of Technology, Taiwan [Kobayashi, Hirokazu](#), Osaka Institute of Technology, Japan [Chu, Chih-Yuan](#), National Taipei University of Technology, Taiwan [Chen, Tsung-Hau](#), National Taipei University of Technology, Taiwan [Chen, Ying-Yu](#), National Taipei University of Technology, Taiwan [Chang, Yang-Lang](#), National Taipei University of Technology,

Taiwan

TU2.R4 - Optical Satellite Missions I

Tuesday, September 29, 07:30 - 09:30 • Room 4

TU2.R4.1: THE FAR-INFRARED OUTGOING RADIATION UNDERSTANDING AND MONITORING (FORUM) MISSION. ESA'S 9TH EARTH EXPLORER

[Carnicero Domínguez, Bernardo](#), European Space Agency, Netherlands [Pachot, Charlotte](#), European Space Agency, Netherlands [Oetjen, Hilke](#), European Space Agency, Netherlands [Mariani, Flavio](#), European Space Agency, Netherlands [Riel, Stefanie](#), European Space Agency, Netherlands [Tromba, Andrea](#), European Space Agency, Netherlands [Lajas, Dulce](#), European Space Agency, Netherlands [Schuettmeyer, Dirk](#), European Space Agency, Netherlands [Sierk, Bernd](#), European Space Agency, Netherlands [Leveque, Nicolas](#), Airbus Defence and Space Ltd., United Kingdom [Kolm, Manfred-Georg](#), Airbus Defence and Space GmbH., Germany [Korswagen, Hans](#), Thales Alenia Space UK Ltd., United Kingdom [Posselt, Winfried](#), OHB System AG, United Kingdom

TU2.R4.2: TOTAL COLUMN RETRIEVAL OF SO₂ AND HCHO FROM SENTINEL-4 MEASUREMENTS

[van Gent, Jeroen](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Theys, Nicolas](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [De Smedt, Isabelle](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Lerot, Christophe](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Van Roozendaal, Michel](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium

TU2.R4.3: DERIVATION OF JPSS-2 CRIS PRE-LAUNCH SPECTRAL CALIBRATION PARAMETERS FROM THE THERMAL VACUUM TEST DATA

[Chen, Yong](#), Global Science and Technology Inc., United States [Iturbide-Sanchez, Flavio](#), National Oceanic and Atmospheric Administration, United States [Strow, Larrabee](#), University of Maryland, Baltimore County, United States [Motteler, Howard](#), University of Maryland, Baltimore County, United States [Tobin, Dave](#), University of Wisconsin-Madison, United States [Johnson, David](#), National Aeronautics and Space Administration, United States [Suwinski, Lawrence](#), L3Harris Technologies Incorporation, United States [Tremblay, Denis](#), Global Science and Technology Inc., United States

TU2.R4.4: NOAA-20 VISIBLE INFRARED IMAGING RADIOMETER SUITE (VIIRS) DAY-NIGHT BAND CALIBRATION USING THE SCHEDULED LUNAR COLLECTIONS

[Choi, Taeyoung](#), NOAA/GST, United States [Cao, Changyong](#), NOAA, United States [Shao, Xi](#), University of Maryland College Park/NOAA, United States

TU2.R4.5: GOES-17 ABI L1B PRODUCT PERFORMANCE WITH PREDICTIVE CALIBRATION

[Fulbright, Jon](#), ASRC Federal, United States [Pogorzala, David](#), Centarui, United States [Kline, Elizabeth](#), NOAA/NESDIS/GOES-R Program, United States [Wang, Zhipeng \(Ben\)](#), University of Maryland at College Park, United States [Yu, Fangfang](#), University of Maryland at College Park, United States [Yoo, Hyelim](#), University of Maryland at College Park, United States [Wu, Xiangqian](#), NOAA/NESDIS/STAR, United States

TU2.R4.6: SCIENTIFIC REQUIREMENTS FOR A NEW EO MISSION IN THE MWIR-LWIR SPECTRAL RANGE

[Buongiorno, Maria Fabrizia](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Romaniello, Vito](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Silvestri, Malvina](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Montuori, Antonio](#), Agenzia Spaziale Italiana, Italy [Zoffoli, Simona](#), Agenzia Spaziale Italiana, Italy

TU2.R4.7: ENHANCING LEGACY AND SMALL SATELLITE CALIBRATION/VALIDATION SYSTEMS WITH 3D GLOBE CONTEXTUAL VISUALIZATION

[Bai, Yan](#), University of Maryland, United States [Zhang, Bin](#), University of Maryland, United States [Wang, Wenhui](#), University of Maryland, United States [Shao, Xi](#), University of Maryland, United States

TU2.R4.8: GYROSCOPE DATA DE-NOISING BASED ON INHERENT FREQUENCY FOR EARTH OBSERVATION SATELLITE

[Mo, Fan](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Xie, Junfeng](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Tang, Xinming](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Dou, Xianhui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Chen, Jiyi](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU2.R4.9: CORRECTING IMAGE BLURRING INDUCED BY THE ADCS JITTER IN CUBESATS

[Llaveria, David](#), Universitat Politècnica de Catalunya (UPC), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain [Park, Hyuk](#), Universitat Politècnica de Catalunya (UPC), Spain

TU2.R4.10: LAND COVER FEATURE EXTRACTION FROM CORONA SPY SATELLITE IMAGES DURING THE COLD WAR - 1968

[Stratoulas, Dimitris](#), Koç University, Turkey [Kabadayi, M. Erdem](#), Koç University, Turkey

TU2.R5 - Hyperspectral Image Classification II Tuesday, September 29, 07:30 - 09:30 • Room 5

TU2.R5.1: TWO-STEP ENSEMBLE BASED CLASS NOISE CLEANING METHOD FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Feng, Wei](#), School of Electronic Engineering, Xidian University, China [Quan, Yinghui](#), School of Electronic Engineering, Xidian University, China [Dauphin, Gabriel](#), Institut Galilée, University Paris XIII, France [Zhong, Xian](#), School of Electronic Engineering, Xidian University, China [Li, Qiang](#), Northwestern Polytechnical University, China [Xing, Mengdao](#), Xidian University, China [Huang, Wenjiang](#), Chinese Academy of Sciences, China

TU2.R5.2: A SUPERPIXEL-BASED FRAMEWORK FOR NOISY HYPERSPECTRAL IMAGE CLASSIFICATION

[Fu, Peng](#), Nanjing University of Science and Technology, China [Sun, Quansen](#), Nanjing University of Science and Technology, China [Ji, Zexuan](#), Nanjing University of Science and Technology, China [Geng, Leilei](#), Shandong University of Finance and Economics, China

TU2.R5.3: HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON MULTISCALE SPATIAL AND SPECTRAL FEATURE NETWORK

[Tang, Xu](#), Xidian University, China [Meng, Fanbo](#), Xidian University, China [Ma, Jingjing](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Liu, Fang](#), Nanjing University of Science and Technology, China [Peng, Qunnie](#), Science and Technology on Electro-optic Control Laboratory, China [Jiao, Licheng](#), Xidian University, China

TU2.R5.4: IMPROVING HYPERSPECTRAL IMAGE CLASSIFICATION USING GRAPH WAVELETS

[Qian, Qipeng](#), Shanghai Jiao Tong University, China [Fan, Xiaotian](#), Zhejiang University, China [Ye, Minchao](#), China Jiliang University, China

TU2.R5.5: JOINT GROUP SPARSE COLLABORATIVE REPRESENTATION FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Tian, Qing](#), Beijing Institute of Technology, China [Zhao, Juan](#), Beijing Institute of Technology, China [Bai, Xia](#), Beijing Institute of Technology, China

TU2.R5.6: PERONA-MALIK DIFFUSION DRIVEN CNN FOR SUPERVISED CLASSIFICATION OF HYPERSPECTRAL IMAGES

[Wen, Ning](#), Nanjing University of Science and Technology, China [Liu, Qichao](#), Nanjing University of Science and Technology, China [Xiao, Liang](#), Nanjing University of Science and Technology, China

TU2.R5.7: A DIRECTIONAL MESSAGE PROPAGATION CONVOLUTIONAL NEURAL NETWORK FOR HYPERSPECTRAL IMAGES CLASSIFICATION

[Yu, Jian](#), Nanjing University of Science and Technology, China [Liu, Qichao](#), Nanjing University of Science and Technology, China [Xiao, Liang](#), Nanjing University of Science and Technology, China [Wei, Zhihui](#), Nanjing University of Science and Technology, China

TU2.R5.8: HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON TENSOR-TRAIN CONVOLUTIONAL LONG SHORT-TERM MEMORY

[Hu, Wenshuai](#), Southwest Jiaotong University, China [Li, Hengchao](#), Southwest Jiaotong University, China [Ma, Tianyu](#), Southwest Jiaotong University, China [Du, Qian](#), Mississippi State University, United States [Plaza, Antonio](#), University of Extremadura, Spain [Emery, William J.](#), University of Colorado, United States

TU2.R5.9: ADAPTIVE NEIGHBORHOOD STRATEGY BASED GENERATIVE ADVERSARIAL NETWORK FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Liang, Hongbo](#), School of Computer Science and Engineering, North Minzu University, China [Bao, Wenxing](#), School of Computer Science and Engineering, North Minzu University, China [Lei, Bingbing](#), School of Computer Science and Engineering, North Minzu University, China [Zhang, Jian](#), School of Computer Science and Engineering, North Minzu University, China [Qu, Kewen](#), School of Computer Science and Engineering, North Minzu University, China

TU2.R5.10: HYPERSPECTRAL IMAGE CLASSIFICATION USING SPECTRAL-SPATIAL CONVOLUTIONAL NEURAL NETWORKS

[Nalepa, Jakub](#), KP Labs, Silesian University of Technology, Poland [Tulczyjew, Lukasz](#), KP Labs, Silesian University of Technology, Poland [Myller, Michal](#), KP Labs, Silesian University of Technology, Poland [Kawulok, Michal](#), KP Labs, Silesian University of Technology, Poland

TU2.R5.11: SEGMENTING HYPERSPECTRAL IMAGES USING SPECTRAL CONVOLUTIONAL NEURAL NETWORKS IN THE PRESENCE OF NOISE

[Nalepa, Jakub](#), Silesian University of Technology, KP Labs, Poland [Stanek, Marek](#), Silesian University of Technology, Poland

TU2.R6 - IEEE GRSS Data Fusion Tuesday, September 29, 07:30 - 09:30 • Room 6 Contest

TU2.R6.1: IEEE DATA FUSION CONTEST OVERVIEW

[Hänsch, Ronny](#), German Aerospace Center (DLR), Germany

TU2.R6.2: WEAKLY SUPERVISED SEMANTIC SEGMENTATION IN THE 2020 IEEE GRSS DATA FUSION CONTEST

[Robinson, Caleb](#), Georgia Institute of Technology, United States [Malkin, Nikolay](#), Yale University, United States [Hu, Lucas](#), University of Southern California, United States [Dilkina, Bistra](#), University of Southern California, United States [Jojic, Nebojsa](#), Microsoft Research, United States

TU2.R6.3: LAND COVER MAPPING BASED ON MULTI-BRANCH FUSION OF OBJECT-BASED AND PIXEL-BASED SEGMENTATION WITH FILTERED LABELS

[Xia, Yu](#), Wuhan University, China [Liao, Yue](#), Wuhan University, China [Zhang, Hongyan](#), Wuhan University, China [Yang, Guangyi](#), Wuhan University, China

TU2.R6.4: STEPWISE REFINEMENT OF LOW RESOLUTION LABELS FOR EARTH OBSERVATION DATA: PART 1

[Cerra, Daniele](#), German Aerospace Center (DLR), Germany [Merkle, Nina](#), German Aerospace Center (DLR), Germany [Henry, Corentin](#), German Aerospace Center (DLR), Germany [Alonso, Kevin](#), German Aerospace Center (DLR), Germany [d'Angelo, Pablo](#), German Aerospace Center (DLR), Germany [Auer, Stefan](#), German Aerospace Center (DLR), Germany [Bahmanyar, Reza](#), German Aerospace Center (DLR), Germany [Yuan, Xiangtian](#), German Aerospace Center (DLR), Germany [Bittner, Ksenia](#), German Aerospace Center (DLR), Germany [Langheinrich, Maximilian](#), German Aerospace Center (DLR), Germany [Zhang, Guichen](#), German Aerospace Center (DLR), Germany [Pato, Miguel](#), German Aerospace Center (DLR), Germany [Tian, Jiaojiao](#), German Aerospace Center (DLR), Germany [Reinartz, Peter](#), German Aerospace Center (DLR), Germany

TU2.R6.5: LARGE-SCALE LAND COVER MAPPING OF SATELLITE IMAGES USING ENSEMBLE OF RANDOM FORESTS - IEEE DATA FUSION CONTEST 2020 TRACK 1

[Chen, Huijun](#), The Ohio State University, United States [Liu, Wei](#), The Ohio State University, United States [Xiao, Changlin](#), The Ohio State University, United States [Qin, Rongjun](#), The Ohio State University, United States

TU2.R6.6: LARGE-SCALE LAND COVER MAPPING OF SATELLITE IMAGES USING ENSEMBLE OF RANDOM FORESTS WITH MULTI-RESOLUTION LABEL - IEEE DATA

FUSION CONTEST 2020 TRACK 2

[Chen, Huijun](#), The Ohio State University, United States [Xiao, Changlin](#), The Ohio State University, United States [Liu, Wei](#), The Ohio State University, United States [Qin, Rongjun](#), The Ohio State University, United States

TU2.R6.7: STEPWISE REFINEMENT OF LOW RESOLUTION LABELS FOR EARTH OBSERVATION DATA: PART 2

[Cerra, Daniele](#), German Aerospace Center (DLR), Germany [Merkle, Nina](#), German Aerospace Center (DLR), Germany [Henry, Corentin](#), German Aerospace Center (DLR), Germany [Alonso, Kevin](#), German Aerospace Center (DLR), Germany [d'Angelo, Pablo](#), German Aerospace Center (DLR), Germany [Auer, Stefan](#), German Aerospace Center (DLR), Germany [Bahmanyar, Reza](#), German Aerospace Center (DLR), Germany [Yuan, Xiangtian](#), German Aerospace Center (DLR), Germany [Bittner, Ksenia](#), German Aerospace Center (DLR), Germany [Langheinrich, Maximilian](#), German Aerospace Center (DLR), Germany [Zhang, Guichen](#), German Aerospace Center (DLR), Germany [Pato, Miguel](#), German Aerospace Center (DLR), Germany [Tian, Jiaojiao](#), German Aerospace Center (DLR), Germany [Reinartz, Peter](#), German Aerospace Center (DLR), Germany

TU2.R6.8: WEAKLY SUPERVISED LAND COVER CLASSIFICATION METHOD FOR LARGE-SCALE MULTI-RESOLUTION LABELED SATELLITE IMAGES DATA SETS

[Yin, Shuting](#), Xidian University, China [Chen, Dafan](#), Xidian University, China [Ma, Chengconghui](#), Xidian University, China [Lian, Yanchao](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China [Liu, Fang](#), Xidian University, China

TU2.R7 - Spatial Analysis,
Modeling and Computing for
GIScience

Tuesday, September 29, 07:30 - 09:30 • Room 7

[TU2.R7.1: A GEOGRAPHICALLY WEIGHTED TOTAL COMPOSITE ERROR ANALYSIS FOR SOFT CLASSIFICATION](#)

[Tsutsumida, Narumasa](#), Kyoto University, Japan [Yoshida, Takahiro](#), National Institute for Environmental Studies, Japan [Murakami, Daisuke](#), Institute of Mathematical Statistics, Japan [Nakaya, Tomoki](#), Tohoku University, Japan

[TU2.R7.2: ESTIMATING MULTIPLE-SCALE GDP DISTRIBUTION USING NIGHTTIME LIGHT AND SPATIAL METHODS](#)

[Cao, Jiping](#), Wuhan University, China [Chen, Yumin](#), Wuhan University, China [Tan, Huangyuan](#), Wuhan University, China [Yang, Jiaxin](#), Wuhan University, China [Luo, Fenglan](#), Wuhan University, China

[TU2.R7.3: QUANTITATIVE ANALYSIS OF WATERSHEDS PARTITIONED FROM CARTOSAT DEM OF LOWER INDUS SUB-BASIN VIA MULTIFRACTAL SPECTRA](#)

[Nagajothi, K](#), Indian Space Research Organisation, India [Rajashekara, H M](#), Indian Statistical Institute, India [Daya Sagar, B S](#), Indian Statistical Institute, India

[TU2.R7.4: EVALUATION OF THE ENVIRONMENTAL QUALITY OF HUMAN SETTLEMENTS IN FUZHOU BASED ON MULTI-SOURCE DATA](#)

[Yao, Xiaojing](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Zhu, Yujiao](#), College of Geoscience and Surveying Engineering, China [Wang, Dacheng](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

[TU2.R7.5: RESEARCH ON 3D REAL SCENE PLANNING METHOD FOR MINE REFORESTATION](#)

[Tang, Feifei](#), Chongqing Jiaotong University, China [Ruan, Zhimin](#), China Merchants Roadway Information Technology (Chongqing) Co., Ltd., China [Chen, Maolin](#), Chongqing Jiaotong University, China [Hu, Jingxiang](#), Chongqing Jiaotong University, China [Tang, Tianjun](#), Chongqing Jiaotong University, China

[TU2.R7.6: EDGE ANALYTICS AND COMPLEX EVENT PROCESSING FOR REAL TIME AIR POLLUTION MONITORING AND CONTROL](#)

[Kulshrestha, Utkarsh](#), Indian Institute of Technology Bombay, India [Durbha, Surya](#), Indian Institute of Technology Bombay, India

[TU2.R7.7: FIRST TEST OF AGISOFT METASHAPE SATELLITE IMAGE PROCESSING FOR](#)

[Zuykova, Emma](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia
[Karaev, Vladimir](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia
[Meshkov, Eugeny](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia
[Panfilova, Mariya](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia
[Ryabkova, Maria](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia

TU2.R8.8: AUTOMATIC EXTRACTION OF INTERNAL WAVE SIGNATURE FROM MULTIPLE SATELLITE SENSORS BASED ON DEEP CONVOLUTIONAL NEURAL NETWORKS

[Zhang, Shuangshang](#), Hohai University, China [Liu, Bin](#), Shanghai Ocean University, China [Li, Xiaofeng](#), Institute of Oceanology, Chinese Academy of Sciences, China [Xu, Qing](#), Hohai University, China

TU2.R8.9: ON THE ANALYSIS OF SAR DERIVED WIND AND SEA SURFACE CURRENTS

[Zamparelli, Virginia](#), Institute for Electromagnetic Sensing of the Environment - National Research Council, Italy [De Santi, Francesca](#), Institute for Electromagnetic Sensing of the Environment - National Research Council, Italy [De Carolis, Giacomo](#), Institute for Electromagnetic Sensing of the Environment - National Research Council, Italy [Fornaro, Gianfranco](#), Institute for Electromagnetic Sensing of the Environment - National Research Council, Italy

TU2.R8.10: A NUMERICAL STUDY OF SST EFFECTS ON OCEAN RADAR BACKSCATTERING

[Du, Yanlei](#), Tsinghua University, China [Yang, Xiaofeng](#), Aerospace Information Research Institute, China [Yang, Jian](#), Tsinghua University, China [Li, Xiaofeng](#), National Oceanic and Atmospheric Administration, United States

TU2.R9 - Sea Ice I

Tuesday, September 29, 07:30 - 09:30 • Room 9

TU2.R9.1: A MICROWAVE EMISSIVITY SEA ICE RETRIEVAL ALGORITHM

[Wentz, Katherine](#), Remote Sensing Systems, United States [Mears, Carl](#), Remote Sensing Systems, United States [Wentz, Frank](#), Remote Sensing Systems, United States

TU2.R9.2: ULTRA WIDEBAND RADIOMETER SIGNATURES OF ARCTIC SEA ICE: PRELIMINARY RESULTS FROM THE MOSAIC CAMPAIGN

[Demir, Oguz](#), The Ohio State University, United States [Andrews, Mark](#), The Ohio State University, United States [Ayotte, Kenneth](#), The Ohio State University, United States [Kaleschke, Lars](#), Alfred Wegener Institute, Germany [Jezek, Kenneth](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States

TU2.R9.3: RETRIEVAL OF ARCTIC SEA ICE SURFACE MELT ONSET IN 2016 FROM FY-3B/MWRI DATA

[Su, Jie](#), Ocean University of China, China [Hao, Hairui](#), Ocean University of China, China [Liang, Hongjie](#), Ocean University of China, China

TU2.R9.4: SEA ICE MELT AND FREEZE ONSET FROM SPACE-BASED LIDAR MEASUREMENTS

[Lu, Xiaomei](#), SSAI/NASA LaRC, United States [Hu, Yongxiang](#), NASA Langley Research Center, United States

TU2.R9.5: AIRBORNE ALTIMETRY MEASUREMENTS IN THE ARCTIC USING A COMPACT MULTI-BAND RADAR SYSTEM: INITIAL RESULTS

[Rodriguez-Morales, Fernando](#), University of Kansas, United States [Li, Jilu](#), University of Kansas, United States [Leuschen, Carlton](#), University of Kansas, United States [Hvidegaard, Sine](#), Technical University of Denmark, Denmark [Forsberg, René](#), Technical University of Denmark, Denmark

TU2.R9.6: OBSERVATIONS OF ARCTIC SEA ICE LEADS AND OPEN WATER DURING THE MICROBIOLOGICAL-OCEAN-CLOUD COUPLING IN THE HIGH ARCTIC CAMPAIGN

[Nghiem, Son](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kirpes, Rachel](#), University of Michigan, United States [Liu, Jun](#), University of Michigan, United States [Pratt, Kerri](#), University of Michigan, United States [Matrai, Patricia](#), Bigelow Laboratory for Ocean Sciences, United States [Grannas, Amanda](#), Villanova University, United States

States [Wernli, Heini](#), ETH Zürich, Switzerland

[TU2.R9.7: ESTIMATION OF ICE CONCENTRATION FROM SAR USING MULTISCALE ICE AND WATER RETRIEVALS](#)

[Komarov, Alexander](#), Data Assimilation and Satellite Meteorology Research Section, Canada
[Buehner, Mark](#), Data Assimilation and Satellite Meteorology Research Section, Canada

[TU2.R9.8: MODELING BACKSCATTER FROM OIL-CONTAMINATED SEA ICE USING A MULTI-LAYERED SCATTERING MODEL](#)

[Isleifson, Dustin](#), University of Manitoba, Canada [Komarov, Alexander](#), Environment and Climate Change Canada, Canada [Desmond, Durell](#), University of Manitoba, Canada [Stern, Gary](#), University of Manitoba, Canada [Barber, David](#), University of Manitoba, Canada

[TU2.R9.9: A MULTI-SCALE TECHNIQUE TO DETECT MARGINAL ICE ZONES USING CONVOLUTIONAL NEURAL NETWORKS.](#)

[Nagi, Anmol Sharan](#), University of Waterloo, Canada [Minhas, Manpreet Singh](#), University of Waterloo, Canada [Xu, Linlin](#), University of Waterloo, Canada [Scott, Andrea](#), University of Waterloo, Canada

[TU2.R9.10: ASSESSMENT OF FOUR PASSIVE MICROWAVE SEA ICE CONCENTRATIONS BY USING AUTOMATIC MODIS SEA ICE CLASSIFICATION](#)

[Liang, Shuang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zeng, Jiangyuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Zhen](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Chen, Kun-shan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Ping](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

[TU2.R9.11: COMPARISON OF ASCAT ESTIMATED SNOW THICKNESS ON FIRST-YEAR SEA ICE IN THE CANADIAN ARCTIC WITH MODELED AND PASSIVE MICROWAVE DATA](#)

[Yackel, John](#), University of Calgary, Canada [Geldsetzer, Torsten](#), University of Calgary, Canada [Mahmud, Mallik](#), University of Calgary, Canada [Nandan, Vishnu](#), University of Manitoba, Canada [Armstrong, Rory](#), University of Calgary, Canada [Barber, David](#), University of Manitoba, Canada [Fuller, Mark Christopher](#), University of Calgary, Canada

TU2.R10 - Remote Sensing for Forest and Vegetation Structure, Health and Growth I Tuesday, September 29, 07:30 - 09:30 • Room 10

[TU2.R10.1: SPATIAL-TEMPORAL PREDICTION OF VEGETATION INDEX WITH A CONVOLUTIONAL GRU NETWORK](#)

[Yu, Wentao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liu, Qinhuo](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

[TU2.R10.2: DEVELOPMENT OF GREENNESS ANALYSIS TOOL USING REMOTE SENSING SATELLITE IMAGES](#)

[Kalpoma, Kazi A](#), Ahsanullah University of Science and Technology, Bangladesh [Leman, Mohammad](#), Ahsanullah University of Science and Technology, Bangladesh [Islam, Md. Toufiqul](#), Ahsanullah University of Science and Technology, Bangladesh [Poddar, Shaishab](#), Ahsanullah University of Science and Technology, Bangladesh [Ahmed, Jebon](#), Ahsanullah University of Science and Technology, Bangladesh

[TU2.R10.3: A METHOD FOR IMPROVING THE ACCURACY OF THE MODERATE RESOLUTION LAI PRODUCT BASED ON THE MIXED-PIXEL CLUMPING INDEX](#)

[Dong, Yadong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Jiao, Ziti](#), Beijing Normal University, China [Liu, Qinhuo](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhao, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Hu](#), Tianjin Normal University, China

[TU2.R10.4: AN FPAR RETRIEVAL ALGORITHM BASED ON DEEP LEARNING FOR MODIS VISIBLE BAND SURFACE REFLECTANCE](#)

[Gao, Huijuan](#), Shandong University of Science and Technology, China [Liu, Xirong](#), Shandong

University of Science and Technology, China [Wang, Weiyan](#), Shandong University of Science and Technology, China

TU2.R10.5: THE RESEARCH OF LEAF AREA INDEX ANALYZER BASED ON EMBEDDED PLATFORM

[Wang, Peicheng](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Gao, Bo](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Gong, Xun](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Tong, Ling](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Sun, Yuan](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Gu, Xingfa](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

TU2.R10.6: LAI INVERSION FROM MODIS DATA USING DEEP BELIEF NETWORK (DBN)

[Wang, Weiyan](#), Shandong University of Science and Technology, China [Jia, Chen](#), Shandong University of Science and Technology, China [Gao, Huijuan](#), Shandong University of Science and Technology, China

TU2.R10.7: RESEARCH ON THE OPTICAL METHOD OF LEAF AREA INDEX MEASUREMENT BASE ON THE HEMISPHERICAL IMAGE

[Zhou, Xing](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Tong, Ling](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Wang, Peicheng](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Gong, Xun](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Li, Yuxia](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Gao, Bo](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Sun, Yuan](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Gu, Xingfa](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

TU2.R10.8: ANNUAL GRASS BIOMASS MAPPING WITH LANDSAT-8 AND SENTINEL-2 DATA OVER KRUGER NATIONAL PARK, SOUTH AFRICA

[Berger, Christian](#), University of Jena, Germany [Lux, Harald](#), University of Jena, Germany [Urban, Marcel](#), University of Jena, Germany [Schmullius, Christiane](#), University of Jena, Germany [Baade, Jussi](#), University of Jena, Germany [Thiel, Christian](#), German Aerospace Center (DLR), Germany [Wigley-Coetsee, Corli](#), South African National Parks (SANParks), South Africa [Smit, Izak](#), South African National Parks (SANParks), South Africa

TU2.R10.9: GENERATION OF LIDAR-PREDICTED FOREST BIOMASS MAPS FROM RADAR BACKSCATTER WITH CONDITIONAL GENERATIVE ADVERSARIAL NETWORKS

[Björk, Sara](#), UiT The Arctic University of Norway, Norway [Anfinssen, Stian Normann](#), UiT The Arctic University of Norway, Norway [Næsset, Erik](#), Norwegian University of Life Sciences, Norway [Gobakken, Terje](#), Norwegian University of Life Sciences, Norway [Zahabu, Eliakimu](#), Sokoine University of Agriculture, Tanzania

TU2.R10.10: ESTIMATION OF GLOBAL NET PRIMARY PRODUCTIVITY FROM 1981 TO 2018 WITH REMOTE SENSING DATA

[Sun, Rui](#), Beijing Normal University, China [Wang, Juanmin](#), Beijing Normal University, China [Xiao, Zhiqiang](#), Beijing Normal University, China [Zhu, Anran](#), Beijing Normal University, China [Wang, Mengjia](#), Beijing Normal University, China [Yu, Tao](#), Beijing Normal University, China

TU2.R10.11: FOREST ABOVE GROUND BIOMASS ESTIMATION USING MULTI-SENSOR GEOSTATISTICAL APPROACH

[S, Mohamed Musthafa](#), Indian Institute of Technology Bombay, India [Singh, Gulab](#), Indian Institute of Technology Bombay, India [Patil, Akshay](#), Indian Institute of Technology Bombay, India [Bala Raju, Nela](#), Indian Institute of Technology Bombay, India [Mohanty, Shradha](#), Indian Institute of Technology Bombay, India

TU2.R10.12: TREE SPECIES CLASSIFICATION USING LEAF AND TREE TRUNK IMAGES

[Itakura, Kenta](#), University of Tokyo, Japan [Hata, Teruhito](#), University of Tokyo, Japan [Hosoi, Fumiki](#), University of Tokyo, Japan

TU2.R11 - Remote Sensing for Crop Parameters I Tuesday, September 29, 07:30 - 09:30 • Room 11

TU2.R11.1: DISENTANGLING THE RESPONSE OF VEGETATION TO RAINFALL ANOMALIES FOR DROUGHT EVALUATION OVER THE INDUS BASIN

[Zhou, Jie](#), Central China Normal University, China [Liu, Xuan](#), Central China Normal University, China [Lu, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Jia, Li](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Hu, Guangcheng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Massimo, Menenti](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

TU2.R11.2: MEASUREMENT OF CROP WATER BY ON SITE RADIOMETRY

[Cirone, Richard](#), Iowa State University, United States [Hornbuckle, Brian](#), Iowa State University, United States [Kruger, Anton](#), University Of Iowa, United States

TU2.R11.3: MONITORING VEGETATION CONDITIONS OVER AGRICULTURAL REGIONS USING ACTIVE OBSERVATIONS

[Monsivais-Huertero, Alejandro](#), Instituto Politecnico Nacional, Mexico [Judge, Jasmeet](#), University of Florida, United States [Liu, Pang-Wei](#), NASA Goddard Space Flight Center, United States [Chakrabarti, Subit](#), Indigo Ag, Inc., United States

TU2.R11.4: IMPACT OF UAV TIME-OF-FLIGHT ON RICE NITROGEN UPTAKE MODELS

[Brinkhoff, James](#), University of New England, Australia [Dunn, Brian](#), NSW Department of Primary Industries, Australia [Hart, Josh](#), NSW Department of Primary Industries, Australia [Dunn, Tina](#), NSW Department of Primary Industries, Australia

TU2.R11.5: OPEN-SOURCE SOFTWARE FOR CROP PHYSIOLOGICAL ASSESSMENTS USING HIGH RESOLUTION RGB IMAGES

[Kefauver, Shawn Carlisle](#), University of Barcelona, Spain [Gracia Romero, Adrian](#), University of Barcelona, Spain [Buchaillot, Ma. Luisa](#), University of Barcelona, Spain [Vergara-Diaz, Omar](#), University of Barcelona, Spain [Fernandez-Gallego, Jose A.](#), Universidad de Ibagué, Colombia [El-Haddad, Georges](#), Scientific Software Consultancy and Training, Lebanon [Akl, Alexi](#), Postlight, Poland [Araus, Jose Luis](#), University of Barcelona Agrotecnio, Spain

TU2.R11.6: STUDY ON SPATIOTEMPORAL VARIATIONS OF EVAPOTRANSPIRATION IN ETUOKEQIANQI BASED ON MOD16 PRODUCTS AND PENMAN-MONTEITH MODEL

[Wu, Jiabin](#), China Institute of Water Resources and Hydropower Research, China [Xu, Lili](#), Central China Normal University, China [Li, Heping](#), China Institute of Water Resources and Hydropower Research, China [Cao, Xuesong](#), China Institute of Water Resources and Hydropower Research, China [Lu, Haiyuan](#), China Institute of Water Resources and Hydropower Research, China

TU2.R11.7: STUDY OF TEMPERATURE EMISSIVITY SEPARATION FROM HYPERSPECTRAL THERMAL INFRARED IMAGERY AND ITS APPLICATION IN DETECTING EARLY WATER STRESS IN VEGETATION

[Huo, Hongyuan](#), Beijing University of Technology, China

TU2.R11.8: MONITORING OF VERTICAL DISTRIBUTION OF CHLOROPHYLL CONTENT BY MULTIANGULAR CANOPY REFLECTANCE SPECTRA IN MAIZE

[Ye, Huichun](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Huang, Wenjiang](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Huang, Shanyu](#), Chinese Academy of Agricultural Engineering Planning & Design, China [Kong, Weiping](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ren, Yu](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wu, Bin](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Dong, Yingying](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China

TU2.R11.9: REFLECTANCE PRI DOES NOT EQUAL TRANSMITTANCE PRI

[Vanderbilt, Vern](#), NASA, United States [Daughtry, Craig](#), USDA-ARS, United States [Dahlgren, Robert](#), CSUMB/NASA, United States

TU2.R11.10: ON THE ESTIMATION OF THE LEAF ANGLE DISTRIBUTION FROM DRONE BASED PHOTOGRAMMETRY

[Xu, Shan](#), Beijing Normal University, China [A.Zaidan, Martha](#), University of Helsinki, Finland [Honkavaara, Eija](#), National Land Survey of Finland, Finland [Hakala, Teemu](#), National Land Survey of Finland, Finland [Viljanen, Niko](#), National Land Survey of Finland, Finland [Porcar-Castell, Albert](#), University of Helsinki, Finland [Liu, Zhigang](#), Beijing Normal University, China [Atherton, Jon](#), University of Helsinki, China

TU2.R11.11: WINTER WHEAT YIELD ESTIMATION AT THE FIELD SCALE BY ASSIMILATING SENTINEL-2 LAI INTO CROP GROWTH MODEL

[Wu, Yantong](#), University of Electronic Science and Technology of China, China [Xu, Wenbo](#), University of Electronic Science and Technology of China, China [Huang, Hai](#), China Agricultural University, China [Huang, Jianxi](#), China Agricultural University, China [Yin, Feng](#), University College London, United Kingdom [Ma, Hongyuan](#), University College London, United Kingdom [Zhuo, Wen](#), China Agricultural University, China [Gao, Xinran](#), China Agricultural University, China [Shen, Qianrong](#), China Agricultural University, China [Wang, Xinlei](#), China Agricultural University, China

TU2.R12 - Multispectral Urban Remote Sensing Tuesday, September 29, 07:30 - 09:30 • Room 12

TU2.R12.1: FORECASTING LAND SURFACE TEMPERATURE USING ARTIFICIAL NEURAL NETWORK

[G., Nimish](#), Indian Institute of Technology Kharagpur, India [H.A., Bharath](#), Indian Institute of Technology Kharagpur, India

TU2.R12.2: DECISION FUSION OF PIXEL-BASED AND REGION-BASED SEGMENTATION FOR BUILDING DETECTION

[He, Pei](#), Xidian University, China [Cao, Siyu](#), Xidian University, China [Wang, Shuang](#), Xidian University, China [Zhang, Chi](#), Xidian University, China [Guo, Yanhe](#), Xidian University, China [Wang, Yao](#), Xidian University, China [Hou, Biao](#), Xidian University, China

TU2.R12.3: AN ACCURATE EXTRACTION ALGORITHM OF THE INDOOR BOUNDARY FEATURES BASED ON POINT CLOUD DATA

[Su, Zhonghua](#), University of Electronic Science and Technology of China, China [Zhou, Guiyun](#), University of Electronic Science and Technology of China, China [He, Ze](#), University of Electronic Science and Technology of China, China [Shi, Xiaolei](#), University of Electronic Science and Technology of China, China [Lu, Xukun](#), China Academy of Electronics and Information Technology, China [Xu, Yifan](#), University of Electronic Science and Technology of China, China

TU2.R12.4: AUTOMATIC EXTRACTION OF BUILT-UP AREAS FOR CITIES IN CHINA FROM GF-3 IMAGES BASED ON IMPROVED RESIDUAL U-NET NETWORK

[Li, JuanJuan](#), Chinese Academy of Sciences, China [Wang, Chao](#), Chinese Academy of Sciences, China [Zhang, Hong](#), Chinese Academy of Sciences, China [Wu, Fan](#), Chinese Academy of Sciences, China [Li, Lu](#), Chinese Academy of Sciences, China [Gong, Lixia](#), China Earthquake Administration, China

TU2.R12.5: COMPARISON OF MODIS LAND SURFACE TEMPERATURE AND AIR TEMPERATURE OVER GLOBAL IN 2015

[Zhang, Ping](#), NASA Goddard Space Flight Center, United States [Wolfe, Robert](#), NASA Goddard Space Flight Center, United States [Bounoua, Lahouari](#), NASA Goddard Space Flight Center, United States

TU2.R12.6: URBAN HEAT ISLANDS AND REMOTE SENSING: CHARACTERIZING LAND SURFACE TEMPERATURE AT THE NEIGHBORHOOD SCALE

[Liebowitz, Anna](#), Columbia University, United States [Sebastian, Elizabeth](#), Fusion Academy, United States [Yanos, Claudia](#), University of Chicago, United States [Bilik, Matthew](#), Brooklyn Technical High School, United States [Blake, Reginald](#), New York City College of Technology, CUNY, United States [Norouzi, Hamidreza](#), New York City College of Technology, CUNY, United States

States

TU2.R12.7: INFERENCE OF URBAN FUNCTION ZONE BASED ON DEEP NEURAL NETWORK

[Hou, Ankai](#), University of Electronic Science and Technology of China, China [Zhu, Mingcang](#), Department of Natural Resources of Sichuan Province, China [Li, Pengshan](#), Chengdu Land Planning and Cadastre Center, China [He, Yong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [Zhang, Xiaobo](#), Chengdu Institute of Survey & Investigation, China [Shi, Jibao](#), Chengdu Institute of Survey & Investigation, China [Chen, Kai](#), Chengdu Institute of Survey & Investigation, China [Weng, Tao](#), Chengdu Institute of Survey & Investigation, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China [Zhou, Guoging](#), Guilin University of Technology, China

TU2.R12.8: ONLINE POINT CLOUD SUPER RESOLUTION USING DICTIONARY LEARNING FOR 3D URBAN PERCEPTION

[Shinde, Rajat](#), Indian Institute of Technology Bombay, India [Potnis, Abhishek](#), Indian Institute of Technology Bombay, India [Durbha, Surya](#), Indian Institute of Technology Bombay, India

TU2.R12.9: SPATIO-TEMPORAL DYNAMICS OF SURFACE URBAN HEAT ISLAND PHENOMENA AND URBAN DEVELOPMENT IN THREE CHINESE COASTAL METROPOLISES

[Liu, Fei](#), University of Tsukuba, Japan

TU2.R12.10: A SHADOW FREE MULTISOURCE STACK SPARSE AUTOENCODER FRAMEWORK FOR URBAN IMPERVIOUS SURFACE MAPPING

[Lin, Yinyi](#), Chinese University of Hong Kong, China [Zhang, Hongsheng](#), University of Hong Kong, China [Ma, Peifeng](#), Chinese University of Hong Kong, China [Lin, Hui](#), Jiangxi Normal University, China

TU2.R12.11: RESEARCH ON THE DEVELOPMENT OF URBANIZATION IN YANGTZE RIVER ECONOMIC BELT BASED ON NIGHTTIME LIGHT REMOTE SENSING DATA

[Zhang, Wei](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Qi, Jianwei](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Wang, Guanghui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhai, Haoran](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TU2.R12.12: ALGORITHM FOR URBAN SPONTANEOUS GREEN SPACE DETECTION BASED ON OPTICAL SATELLITE REMOTE SENSING

[Cieřkowski, Wojciech](#), Warsaw University of Life Sciences, Poland [Sikorski, Piotr](#), Warsaw University of Life Sciences, Poland [Babańczyk, Piotr](#), Warsaw University of Life Sciences, Poland [Sikorska, Daria](#), Warsaw University of Life Sciences, Poland [Chormański, Jarosław](#), Warsaw University of Life Sciences, Poland

TU2.R13 - Advances in
Reflectometry with GNSS and
Signals of Opportunity (GNSS+R)

Tuesday, September 29, 07:30 - 09:30 • Room 13

TU2.R13.1: FFSCAT MISSION: PRELIMINARY RESULTS AND ICE PRODUCTS VALIDATION WITH MOSAIC CAMPAIGN DATA

[Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain [Munoz-Martin, Joan Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Perez, Adrian](#), Universitat Politècnica de Catalunya (UPC), Spain [Cardellach, Estel](#), Institute of Space Sciences (ICE, CSIC), Spain [Ribo, Serni](#), Institute of Space Sciences (ICE, CSIC), Spain [Pastena, Massimiliano](#), European Space Agency (ESA-ESTEC), Netherlands

TU2.R13.2: STATUS OF THE ESA PRETTY MISSION

[Fragner, Heinrich](#), RUAG Space GmbH, Austria [Dielacher, Andreas](#), RUAG Space GmbH, Austria [Moritsch, Michael](#), RUAG Space GmbH, Austria [Wickert, Jens](#), German Research Centre for Geosciences, Germany [Semmling, Maximilian](#), German Research Centre for Geosciences, Germany [Koudelka, Otto](#), Graz University of Technology, Austria [Hoeg, Per](#),

University of Oslo, Austria [Cardellach, Estel](#), Institut d'Estudis Espacials de Catalunya, Spain [Martin Neira, Manuel](#), European Space Agency (ESA-ESTEC), Netherlands [Walker, Roger](#), European Space Agency (ESA-ESTEC), Netherlands [Lissi, Franco Perez](#), European Space Agency (ESA-ESTEC), Netherlands

TU2.R13.3: ANALYSES SUPPORTING SNOOPI: A P-BAND REFLECTOMETRY DEMONSTRATION

[Garrison, James](#), Purdue University, United States [Shah, Rashmi](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kim, Seho](#), Purdue University, United States [Piepmeier, Jeffrey](#), NASA Goddard Space Flight Center, United States [Vega, Manuel](#), NASA Goddard Space Flight Center, United States [Spencer, David](#), Purdue University, United States [Banting, Roger](#), NASA Goddard Space Flight Center, United States [Raymond, Juan](#), NASA Goddard Space Flight Center, United States [Benjamin, Nold](#), Purdue University, United States [Larsen, Kameron](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Bindlish, Rajat](#), NASA Goddard Space Flight Center, United States

TU2.R13.4: NEXT GENERATION GNSS-R INSTRUMENT

[Ruf, Christopher](#), University of Michigan, United States [Backhus, Roger](#), University of Michigan, United States [Butler, Timothy](#), University of Michigan, United States [Chen, Chi-Chih](#), The Ohio State University, United States [Gleason, Scott](#), University Corporation for Atmospheric Research, United States [Loria, Eric](#), The Ohio State University, United States [McKague, Darren](#), University of Michigan, United States [Miller, Ryan](#), University of Michigan, United States [O'Brien, Andrew](#), The Ohio State University, United States [van Nieuwstadt, Line](#), University of Michigan, United States

TU2.R13.5: DIGITAL BACK END FOR P-BAND REFLECTIONS CONCEPTS

[Shah, Rashmi](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Franklin, Garth](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Larsen, Kameron](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Cody, Devin](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Lee, Myron](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

TU2.R13.6: CAN MULTI-FREQUENCY INTERFEROMETRY EXPAND THE COHERENCE CONDITIONS FOR SPACEBORNE GNSS GRAZING ANGLE CARRIER PHASE ALIMETRY?

[Cardellach, Estel](#), Institut de Ciències de l'Espai (ICE-CSIC) Institut d'Estudis Espacials de Catalunya (IEEC), Spain [Li, Weiqiang](#), Institut de Ciències de l'Espai (ICE-CSIC) Institut d'Estudis Espacials de Catalunya (IEEC), Spain [Ribó, Serni](#), Institut de Ciències de l'Espai (ICE-CSIC) Institut d'Estudis Espacials de Catalunya (IEEC), Spain [Rius, Antonio](#), Institut de Ciències de l'Espai (ICE-CSIC) Institut d'Estudis Espacials de Catalunya (IEEC), Spain [Martín-Neira, Manuel](#), European Space Agency (ESTEC/ESA), Netherlands [Nguyen, Nguyen](#), Spire Global UK Ltd., United Kingdom [Yuasa, Takayuki](#), Spire Global UK Ltd., United Kingdom [Nogués-Correig, Oleguer](#), Spire Global UK Ltd., United Kingdom [Masters, Dallas](#), Spire Global UK Ltd., United Kingdom

TU2.R13.7: COHERENT GNSS REFLECTION SIGNAL PROCESSING FOR PRECISION ALTIMETRY APPLICATIONS

[Morton, Y. Jade](#), University of Colorado Boulder, United States [Wang, Yang](#), University of Colorado Boulder, United States [Yang, Rong](#), Shanghai Jiao Tong University, United States

TU2.R13.8: FIRST EXPERIMENTAL EVIDENCE OF WIND AND SWELL SIGNATURES IN L5 GPS AND E5A GALILEO GNSS-R WAVEFORMS

[Munoz-Martin, Joan Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Onrubia, Raul](#), Universitat Politècnica de Catalunya (UPC), Spain [Pascual, Daniel](#), Universitat Politècnica de Catalunya (UPC), Spain [Park, Hyuk](#), Universitat Politècnica de Catalunya (UPC), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain [Rüdiger, Chris](#), Monash University, Australia [Walker, Jeffrey](#), Monash University, Australia [Monerris, Alessandra](#), University of Melbourne, Australia

TU2.R14 - Advancements in the Open Data Cube and Analysis Ready Data Tuesday, September 29, 07:30 - 09:30 • Room 14

TU2.R14.1: ADVANCEMENTS IN THE OPEN DATA CUBE AND ANALYSIS READY DATA - PAST, PRESENT AND FUTURE

[Killough, Brian](#), NASA, United States [Siqueira, Andreia](#), Geoscience Australia, Australia [Dyke, George](#), Symbios, Australia

TU2.R14.2: CEOS ANALYSIS READY DATA FOR LAND: IMPLEMENTATION PHASE AND NEXT STEPS

[Siqueira, Andreia](#), Geoscience Australia, Australia [Lewis, Adam](#), Geoscience Australia, Australia [Thankappan, Medhavy](#), Geoscience Australia, Australia [Szantoi, Zoltan](#), JRC, Italy [Killough, Brian](#), NASA, United States [Goryl, Philippe](#), European Space Agency, Italy [Labahn, Steven](#), USGS, United States [Ross, Jonathon](#), Geoscience Australia, Italy [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan [Rosenqvist, Ake](#), solo Earth Observation, Japan [Lacey, Jennifer](#), USGS, United States [Steventon, Matthew](#), Symbios, Australia

TU2.R14.3: AFRICA REGIONAL DATA CUBE (ARDC) IS HELPING COUNTRIES IN AFRICA REPORT ON THE SUSTAINABLE DEVELOPMENT GOALS

[Mubea, Kenneth](#), Global Partnership for Sustainable Development Data, Kenya [Killough, Brian](#), NASA Langley Research Center, United States [Seidu, Omar](#), Ghana Statistical Service, Ghana [Mugambi, Benjamin](#), Tanzania National Bureau of Statistics, Tanzania [Kimani, John](#), Kenya Space Agency, Kenya [Kamara, Samuel](#), Environment Protection Agency, Sierra Leone

TU2.R14.4: ANALYSIS READY DATA FOR INSAR APPLICATIONS

[Thankappan, Medhavy](#), Geoscience Australia, Australia [Garthwaite, Matthew](#), Geoscience Australia, Australia [Fuhmann, Thomas](#), Geoscience Australia, Australia [Sixsmith, Joshua](#), Geoscience Australia, Australia [Dorji, Passang](#), Geoscience Australia, Australia [Wang, Lan-Wei](#), Geoscience Australia, Australia [Rosenqvist, Ake](#), soloEO, Japan [Siqueira, Andreia](#), Geoscience Australia, Australia

TU2.R14.5: A NOVEL ARCHITECTURE OF JUPYTERHUB ON AMAZON ELASTIC KUBERNETES SERVICE FOR OPEN DATA CUBE SANDBOX

[Rizvi, Syed](#), Analytical Mechanics Associates, United States [Lubawy, Andrew](#), Analytical Mechanics Associates, United States [Rattz, John](#), Analytical Mechanics Associates, United States [Cherry, Andrew](#), Analytical Mechanics Associates, United States [Killough, Brian](#), NASA, United States [Gowda, Sanjay](#), Analytical Mechanics Associates, United States

TU2.R14.6: SAR ANALYSIS READY DATA AND TOOLS FOR THE OPEN DATA CUBE

[Rosenqvist, Ake](#), solo Earth Observation (soloEO), Japan [Killough, Brian](#), NASA Langley Research Center, United States [Lubawy, Andrew](#), Analytical Mechanics Associates, United States [Rattz, John](#), Analytical Mechanics Associates, United States

TU2.R14.7: OPEN DATA CUBE (ODC) VISUALIZATION: BRIDGING THE GAP BETWEEN DATA, DECISIONS, AND DEVELOPMENT GOALS

[Gowda, Sanjay](#), Analytical Mechanics Associates, United States [Killough, Brian](#), NASA Langley Research Center, United States

TU2.R14.8: DATA CUBE APPLICATION ALGORITHMS FOR THE UNITED NATION SUSTAINABLE DEVELOPMENT GOALS (UN-SDGS)

[Rizvi, Syed](#), Analytical Mechanics Associates, United States [Killough, Brian](#), NASA, United States [Cherry, Andrew](#), Analytical Mechanics Associates, United States [Rattz, John](#), Analytical Mechanics Associates, United States [Lubawy, Andrew](#), Analytical Mechanics Associates, United States [Gowda, Sanjay](#), Analytical Mechanics Associates, United States

TU2.R15 - TanDEM-X Mission Status and Science Activities

Tuesday, September 29, 07:30 - 09:30 • Room 15

TU2.R15.1: TANDEM-X: 10 YEARS OF OPERATION

[Hajnsek, Irena](#), German Aerospace Center (DLR) / ETH, Germany [Moreira, Alberto](#), German Aerospace Center (DLR), Germany [Zink, Manfred](#), German Aerospace Center (DLR), Germany [Buckreuss, Stefan](#), German Aerospace Center (DLR), Germany [Kraus, Thomas](#), German Aerospace Center (DLR), Germany [Bachmann, Markus](#), German Aerospace Center (DLR), Germany [Busche, Thomas](#), German Aerospace Center (DLR), Germany

TU2.R15.2: GLOBAL MAPPING OF MANGROVE FORESTS WITH TANDEM-X

[Simard, Marc](#), NASA Jet Propulsion Laboratory, United States [Denbina, Michael](#), NASA Jet Propulsion Laboratory, United States [Fatoyinbo, Lola](#), Goddard Space Flight Center, United States [Thomas, Nathan](#), Goddard Space Flight Center, United States [Stovall, Atticus](#), Goddard Space Flight Center, United States

TU2.R15.3: TOWARDS PANTROPICAL STRUCTURE AND BIOMASS MAPPING FROM FUSION OF GEDI AND TANDEM-X DATA

[Dubayah, Ralph](#), University of Maryland, United States [Armston, John](#), University of Maryland, United States [Qi, Wenlu](#), University of Maryland, United States [Papathanassiou, Kostas](#), German Aerospace Center (DLR), Germany [Pardini, Matteo](#), German Aerospace Center (DLR), Germany [Fatoyinbo, Lola](#), NASA Goddard Space Flight Center, United States

TU2.R15.4: FOREST HEIGHT ESTIMATION FROM TANDEM-X INSAR COHERENCE MAGNITUDE TOWARDS LARGE SCALE APPLICATIONS

[Choi, Changhyun](#), German Aerospace Center (DLR), Germany [Guliaev, Roman](#), German Aerospace Center (DLR), Germany [Cazcarra-Bes, Victor](#), German Aerospace Center (DLR), Germany [Pardini, Matteo](#), German Aerospace Center (DLR), Germany [Papathanassiou, Konstantinos](#), German Aerospace Center (DLR), Germany

TU2.R15.5: AN ADAPTIVE FILTERING APPROACH FOR THE NEW TANDEM-X CHANGE DEM

[Schweissheim, Barbara](#), German Aerospace Center (DLR), Germany [Lachaise, Marie](#), German Aerospace Center (DLR), Germany [Fritz, Thomas](#), German Aerospace Center (DLR), Germany

TU2.R15.6: COMPARING INSAR METHODOLOGIES FOR THE RETRIEVAL OF PADDY RICE HEIGHT WITH TANDEM-X DATA

[Romero-Puig, Noelia](#), University of Alicante, Spain [Lopez-Sanchez, Juan M.](#), University of Alicante, Spain

TU2.R15.7: THE 2015 SAGAVANIRKTOK RIVER FLOOD AND ASSOCIATED PERMAFROST DEGRADATION OBSERVED WITH TERRASAR-X/TANDEM-X AND OTHER SENSORS

[McClellan, Mark](#), UAF, United States [Meyer, Franz](#), UAF, United States [Zwieback, Simon](#), UAF, United States

TU2.R15.8: POLARIMETRIC CHARACTERISTICS FOR SEA-ICE SURFACE TOPOGRAPHIC DERIVATION USING TANDEM-X INTERFEROMETRY DATA

[Huang, Lanqing](#), ETH Zurich, Switzerland [Hajnsek, Irena](#), ETH Zurich, DLR, United States [Nghiem, Son V.](#), NASA Jet Propulsion Laboratory, United States

TU2.R16 - Processing and Imaging Techniques I

Tuesday, September 29, 07:30 - 09:30 • Room 16

TU2.R16.1: SAR PARAMETRIC IMAGING FOR CIRCULAR-PLATE TARGET

[Wen, Yuhua](#), Beijing Institute of Technology, China [Ding, Zegang](#), Beijing Institute of Technology, China [Feng, Fan](#), China Academy of Space Technology, China [Wang, Yan](#), Beijing Institute of Technology, China [Xu, Pei](#), Beijing Institute of Technology, China [Chen, Xinliang](#), Beijing Institute of Technology, China [Zeng, Tao](#), Beijing Institute of Technology, China

TU2.R16.2: ADAPTIVE SIDELobe SUPPRESSION OF SAR IMAGES WITH ARBITRARY DOPPLER CENTROIDS AND BANDWIDTHS

[Zhang, Weili](#), Shanghai Jiao Tong University, China [Wang, Junfeng](#), Shanghai Jiao Tong University, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China

TU2.R16.3: DIFFERENTIAL MODEL FOR SAR IMAGING

[Qiao, Zhijun](#), University of Texas Rio Grande Valley, United States [Zhou, Bin](#), Harbin Institute of Technology, China [Zhang, Lamei](#), Harbin Institute of Technology, China

TU2.R16.4: IMPROVED OMEGA-K ALGORITHM FOR HIGHLY SQUINTED TOPSAR WITH CURVED TRAJECTORY

[Zhang, Gang](#), Xidian University, China [Chen, Feng](#), Shanghai Electro-Mechanical Engineering Institute, China [Li, Guofei](#), Xidian University, China [Liang, Yi](#), Xidian University, China

TU2.R16.5: GNSS-R MULTI-PERIOD SAR IMAGING EXPERIMENTAL STUDY

[Wang, Shu](#), Beihang University, China [Zhu, Yunlong](#), Beihang University, China [Yang](#),

[Dongkai](#), Beihang University, China [Wu, Shiyu](#), Beihang University, China

[TU2.R16.6: A PRECISE ONE-STEP MOTION COMPENSATION FOR SYNTHETIC APERTURE RADAR](#)

[Lu, Qianrong](#), Shanghai Radio Equipment Research Institute, China [Du, Ke](#), Shanghai Radio Equipment Research Institute, China [Yu, Xiangzhen](#), Shanghai Radio Equipment Research Institute, China [Li, Panhu](#), Shanghai Radio Equipment Research Institute, China

[TU2.R16.7: LONG SYNTHETIC APERTURE PASSIVE LOCALIZATION USING AZIMUTH CHIRP-RATE CONTOUR MAP](#)

[Wang, Yuqi](#), Xidian University, China [Sun, Guang-cai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Xiang, Jixiang](#), Xidian University, China [Zhang, Zijiang](#), Xidian University, China [Guo, Liang](#), Xidian University, China

[TU2.R16.8: CIRCULAR EXPERIMENT WITH P-BAND ULTRA-WIDEBAND SYNTHETIC APERTURE RADAR SYSTEM](#)

[Xie, Hongtu](#), Sun Yat-sen University, China [Hu, Jun](#), Sun Yat-sen University, China [Duan, Keqing](#), Sun Yat-sen University, China [Xie, Ni](#), Hunan University of Science and Technology, China [Wang, Guoqian](#), Sun Yat-sen University, China

[TU2.R16.9: FEATURE CORRELATION ANALYSIS OF TWO-BRANCH CONVOLUTIONAL NETWORKS FOR MULTI-SOURCE IMAGE CLASSIFICATION](#)

[Liu, Xu](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China [Liu, Fang](#), Xidian University, China [Hou, Xin](#), WeBank, China [Zhang, Dan](#), Xidian University, China

[TU2.R16.10: DEEP LEARNING FOR VEGETATION IMAGE SEGMENTATION IN LAI MEASUREMENT](#)

[Ma, Cunshi](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Hou, Lei](#), University of Electronic Science and Technology of China, China [Li, Baihui](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Sun, Yuan](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Gu, Xingfa](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

[TU2.R16.11: SEMANTIC SEGMENTATION KNOWLEDGE BASED MMRF OPTIMAL METHOD FOR FINE-GRAINED URBAN INFRASTRUCTURE CLASSIFICATION MAPPING FROM OPTICAL VHR AERIAL IMAGERY](#)

[Dong, Shan](#), Communication University of China, China [Zhuang, Yin](#), Peking University, China [Wang, Yupei](#), Beijing Institute of Technology, China [Chen, He](#), Beijing Institute of Technology, China [Pang, Long](#), Communication University of China, China [Yang, Zhanxin](#), Communication University of China, China [Long, Teng](#), Beijing Institute of Technology, China

[TU2.R16.12: DESIGNING SYNTHETIC OVERHEAD IMAGERY TO MATCH A TARGET GEOGRAPHIC REGION: PRELIMINARY RESULTS TRAINING DEEP LEARNING MODELS](#)

[Nair, Varun](#), Duke University, United States [Rhee, Paul](#), Duke University, United States [Yang, Jichen](#), Duke University, United States [Huang, Bohao](#), Duke University, United States [Bradbury, Kyle](#), Duke University, United States [Malof, Jordan](#), Duke University, United States

TU2.R17 - Physical Modeling in Microwave and Optical Remote Sensing Tuesday, September 29, 07:30 - 09:30 • Room 17

[TU2.R17.1: INVESTIGATION OF THE FMASK CLOUD MASKING ALGORITHM USING SIMULATED MULTISPECTRAL DATA](#)

[Sundberg, Robert](#), Spectral Sciences, Inc., United States

[TU2.R17.2: MODELING MULTI-FREQUENCY TOMOGRAMS FOR SNOW STRATIGRAPHY](#)

[Xu, Xiaolan](#), NASA Jet Propulsion Laboratory, United States [Shen, Haoran](#), University of Michigan, Ann Arbor, United States [Xu, Haokui](#), University of Michigan, Ann Arbor, United States [Tsang, Leung](#), University of Michigan, Ann Arbor, United States

[TU2.R17.3: RECENT ADVANCES IN DEVELOPMENT OF POLARIMETRIC MODTRAN®6](#)

[Hawes, Fred](#), Spectral Sciences, Inc., United States [Berk, Alexander](#), Spectral Sciences, Inc.,

United States [van den Bosch, Jeannette](#), Air Force Research Laboratory, United States

[TU2.R17.4: CHARACTERIZING THE COHERENT REFLECTED POWER DEPENDENCE ON ROUGH SURFACE HEIGHT AT LOW SIGNAL LEVELS](#)

[Raines, Ethan](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Burkholder, Robert](#), The Ohio State University, United States

[TU2.R17.5: ELECTROMAGNETIC MODELING OF SCATTERED GNSS SIGNALS](#)

[Comite, Davide](#), Sapienza University of Rome, Italy [Dente, Laura](#), Tor Vergata University, Italy [Guerriero, Leila](#), Tor Vergata University, Italy [Pierdicca, Nazzareno](#), Sapienza University of Rome, Italy

[TU2.R17.7: A FOUR-PARAMETER SPECTRALLY-UNIVERSAL LINE SHAPE FUNCTION](#)

[Berk, Alexander](#), Spectral Sciences, Inc., United States

[TU2.R17.8: RECENT IMPROVEMENTS IN THE DART MODEL FOR ATMOSPHERE, TOPOGRAPHY, LARGE LANDSCAPE, CHLOROPHYLL FLUORESCENCE, SATELLITE IMAGE INVERSION](#)

[Gastellu-Etchegorry, Jean Philippe](#), Centre d'Etudes Spatiales de la Biosphère, France [Wang, Yingjie](#), Centre d'Etudes Spatiales de la Biosphère, France [Regaieg, Omar](#), Centre d'Etudes Spatiales de la Biosphère, France [Yin, Tiangang](#), University of Maryland, United States [Malenovsky, Zbynek](#), University of Tasmania, Australia [Zhen, Zhijun](#), Centre d'Etudes Spatiales de la Biosphère, France [Yang, Xuebo](#), Centre d'Etudes Spatiales de la Biosphère, France [Tao, Zhu](#), Centre d'Etudes Spatiales de la Biosphère, France [Landier, Lucas](#), CNES, France [Al Bitar, Ahmad](#), Centre d'Etudes Spatiales de la Biosphère, France [Deschamps, Adrien](#), CNES, France [Lauret, Nicolas](#), Centre d'Etudes Spatiales de la Biosphère, France [Jordan, Guilleux](#), Centre d'Etudes Spatiales de la Biosphère, France [Chavanon, Eric](#), Centre d'Etudes Spatiales de la Biosphère, France [Cao, Biao](#), Chinese Academy of Sciences, China [Qi, Jianbo](#), Beijing Forestry University, China [Kallel, Abdelaziz](#), Centre de Recherche en Numérique de SFAX, Tunisia [Mitraka, Zina](#), Foundation for Research and Technology Hellas (FORTH), Greece [Chrysoulakis, Nektarios](#), Foundation for Research and Technology Hellas (FORTH), Greece [Cook, Bruce](#), NASA Goddard Space Flight Center, United States [Morton, Douglas](#), NASA Goddard Space Flight Center, United States

TU2.R18 - Detection and
Segmentation using Very High
Resolution Imaging

Tuesday, September 29, 07:30 - 09:30 • Room 18

[TU2.R18.1: EVENT AND ACTIVITY RECOGNITION IN AERIAL VIDEOS USING DEEP NEURAL NETWORKS AND A NEW DATASET](#)

[Mou, Lichao](#), German Aerospace Center (DLR); Technical University of Munich (TUM), Germany [Hua, Yuansheng](#), German Aerospace Center (DLR); Technical University of Munich (TUM), Germany [Jin, Pu](#), Technical University of Munich (TUM), Germany [Zhu, Xiao Xiang](#), German Aerospace Center (DLR); Technical University of Munich (TUM), Germany

[TU2.R18.2: REMOTE SENSING TARGET TRACKING FOR UAV AERIAL VIDEOS BASED ON MULTI-FREQUENCY FEATURE ENHANCEMENT](#)

[Bi, Fukun](#), North China University of Technology, China [Sun, Jiayi](#), North China University of Technology, China [Lei, Mingyang](#), North China University of Technology, China [Wang, Yanping](#), North China University of Technology, China [Sun, Xiaodi](#), North China University of Technology, China

[TU2.R18.3: AN END-TO-END SCALABLE OBJECT DETECTION NETWORK FOR REMOTE SENSING IMAGES](#)

[Duan, Yani](#), Beijing Jiaotong University, China [Teng, Zhu](#), Beijing Jiaotong University, China [Zhang, Baopeng](#), Beijing Jiaotong University, China [Fan, Jianping](#), Lenovo Research, China

[TU2.R18.4: ARBITRARY-ORIENTED SHIP DETECTION METHOD BASED ON IMPROVED REGRESSION MODEL FOR TARGET DIRECTION DETECTION NETWORK](#)

[Ran, Bohao](#), Beijing University of Posts and Telecommunications, China [You, Yanan](#), Beijing University of Posts and Telecommunications, China [Li, Zezhong](#), Beijing University of Posts and Telecommunications, China [Liu, Fang](#), Beijing University of Posts and Telecommunications, China

TU2.R18.5: SHIP DETECTION FOR KOMPSAT-3A OPTICAL IMAGES USING BINARY FEATURES AND ADABOOST CLASSIFICATION

[Chang, Jae Young](#), Korea Aerospace Research Institute, Korea (South) [Oh, Han](#), Korea Aerospace Research Institute, Korea (South) [Lee, Seung-Jae](#), Korea Aerospace Research Institute, Korea (South) [Lee, Kwang-Jae](#), Korea Aerospace Research Institute, Korea (South)

TU2.R18.6: INSHORE SHIP DETECTION BASED ON MULTI-INFORMATION FUSION NETWORK AND INSTANCE SEGMENTATION

[Tian, Tian](#), China University of Geosciences, China [Gao, Peng](#), Huazhong University of Science and Technology, China [Pan, Zhihong](#), Huazhong University of Science and Technology, China [Li, Hang](#), Beijing Aerospace System Engineering Research Institute, China [Wang, Lizhe](#), China University of Geosciences, China

TU2.R18.7: LEVEE-CRACK DETECTION FROM SATELLITE OR DRONE IMAGERY USING MACHINE LEARNING APPROACHES

[Kuchi, Aditi](#), University of New Orleans, United States [Hoque, Md Tamjidul](#), University of New Orleans, United States [Abdelguerfi, Mahdi](#), University of New Orleans, United States [Flanagin, Maik](#), US Army Corps of Engineers, United States

TU2.R18.8: INSTANCE-AWARE REMOTE SENSING IMAGE CAPTIONING WITH CROSS-HIERARCHY ATTENTION

[Wang, Chengze](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China [Jiang, Zhiyu](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China [Yuan, Yuan](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China

TU2.R18.9: A FINE-GRAINED SHIP DETECTION FRAMEWORK BASED ON FIXED ROI MASKING AND FEATURE OPTIMIZATION IN OPTICAL REMOTE SENSING IMAGES

[Zhang, Xiaohan](#), Naval Aviation University, China [Yao, Libo](#), Naval Aviation University, China [Lv, Yafei](#), Naval Aviation University, China [Li, Mengyang](#), Naval Aviation University, China [Lin, Xun](#), Naval Aviation University, China

TU2.R18.10: INSTANCE SEGMENTATION WITH ORIENTED PROPOSALS FOR AERIAL IMAGES

[Pan, Ting](#), Wuhan University, China [Ding, Jian](#), Wuhan University, China [Wang, Jinwang](#), Wuhan University, China [Yang, Wen](#), Wuhan University, China [Xia, Gui-Song](#), Wuhan University, China

TU2.R18.11: SEMI-AUTOMATIC CLASSIFICATION OF BUILDING FROM LOW-DENSITY LIDAR DATA AND WORLDVIEW-2 IMAGES THROUGH OBIA TECHNIQUE

[Zarro, Chiara](#), University of Sannio, Italy [Ullo, Silvia Liberata](#), University of Sannio, Italy [Meoli, Giuseppe](#), Mapsat, Italy [Focareta, Mariano](#), Mapsat, Italy

TU2.R19 - Clouds and
Precipitation I

Tuesday, September 29, 07:30 - 09:30 • Room 19

TU2.R19.1: RECONFIGURING COSSIR FOR THE NEXT GENERATION OF CLOUD AND PRECIPITATION SCIENCE

[Munchak, Stephen Joseph](#), NASA Goddard Space Flight Center, United States [Adams, Ian](#), NASA Goddard Space Flight Center, United States [Kroodsma, Rachael](#), University of Maryland, United States [Fritts, Matthew](#), NASA Goddard Space Flight Center, United States [Milani, Lisa](#), University of Maryland, United States

TU2.R19.2: AN OPERATIONAL SATELLITE SNOWFALL RATE PRODUCT AT NOAA

[Meng, Huan](#), National Oceanic and Atmospheric Administration, United States [Dong, Jun](#), University of Maryland College Park, United States [Kongoli, Cezar](#), University of Maryland College Park, United States [Ferraro, Ralph](#), National Oceanic and Atmospheric Administration, United States [Yan, Banghua](#), National Oceanic and Atmospheric Administration, United States [Zhao, Limin](#), National Oceanic and Atmospheric Administration, United States

TU2.R19.3: SPATIAL DOWNSCALING FOR GLOBAL PRECIPITATION MEASUREMENT USING A GEOGRAPHICALLY AND TEMPORALLY WEIGHTED REGRESSION MODEL

[Zeng, Zhaozhao](#), Sun Yat-sen University, China [Shi, Qian](#), Sun Yat-sen University, China [Plaza, Javier](#), University of Extremadura, Spain [Plaza, Antonio](#), University of Extremadura, Spain [Li, Jun](#), Sun Yat-sen University, China

[TU2.R19.4: CROSS VALIDATION OF GOES-R AND NOAA MULTI-RADAR MULTI-SENSOR \(MRMS\) QPE OVER THE CONTINENTAL UNITED STATES](#)

[Sun, Luyao](#), Ocean University of China, China [Chen, Haonan](#), NOAA Physical Sciences Laboratory, United States [Han, Lei](#), Ocean University of China, China [Chandrasekar, V.](#), Colorado State University, United States [He, Jieying](#), National Space Science Center, China [Liu, Yang](#), Ocean University of China, China

[TU2.R19.5: EVALUATION OF GPM IMERG PRODUCTS OVER SOUTH KOREA](#)

[Wang, Jianxin](#), Science Systems and Applications, Inc., United States [Petersen, Walter](#), NASA Marshall Space Flight Center, United States [Wolff, David](#), NASA Wallops Flight Facility, United States [Ryu, Geun-Hyeok](#), Korea Meteorological Administration, Korea (South)

[TU2.R19.6: SATELLITE PRECIPITATION ESTIMATES \(SPES\) AND THEIR VALIDATION USING GROUND-BASED MEASUREMENTS: A CASE STUDY IN UTTARAKHAND STATE, INDIA](#)

[Shukla, Anoop Kumar](#), Indian Institute of Technology Roorkee, India [Shukla, Satyavati](#), Guilin University of Technology, India

[TU2.R19.7: ATTENUATION CORRECTION AT KU BAND FOR D3R RADAR](#)

[Joshil, Shashank S.](#), Colorado State University, United States [Chandrasekar, V.](#), Colorado State University, United States

[TU2.R19.8: UNIT AREA AVERAGE RAINFALL ESTIMATION USING AN ELECTROMAGNETIC WAVE RAIN GAUGE SYSTEM](#)

[Lim, Sanghun](#), Korea Institute of Civil Engineering and Building Technology, Korea (South) [Choi, Jeongho](#), Chosun College of Science & Technology, Korea (South) [Kim, Won](#), Korea Institute of Civil Engineering and Building Technology, Korea (South)

[TU2.R19.9: UNDERSTANDING SEVERE WEATHER EVENTS AT AIRPORT SPATIAL SCALE](#)

[Solazzo, Enrico](#), Agenzia Regionale per la Protezione dell'Ambiente Ligure (ARPAL), Italy [Tournigand, Pierre-Yves](#), Università degli Studi di Padova, Italy [Barindelli, Stefano](#), Politecnico di Milano, Italy [Guglieri, Valerio](#), Politecnico di Milano, Italy [Realini, Eugenio](#), Geomatics Research & Development (GRD), Italy [Nisi, Luca](#), MeteoSwiss, Switzerland [Biondi, Riccardo](#), Università degli Studi di Padova, Italy

[TU2.R19.10: A MACHINE LEARNING APPROACH TO DERIVE PRECIPITATION ESTIMATES AT GLOBAL SCALE USING SPACE RADAR AND GROUND-BASED OBSERVATIONS](#)

[Chandrasekar, V.](#), Colorado State University, United States [Chen, Haonan](#), NOAA Earth System Research Laboratory and Colorado State University, United States

[TU2.R19.11: COMBINATION OF GEOSTATIONARY AND POLAR SATELLITE SENSORS TO MONITOR CUMULONIMBUS AND THEIR WINDS AT THE OCEAN SURFACE](#)

[La, Tran Vu](#), Extreme Weather Expertises, France [Messenger, Christophe](#), Extreme Weather Expertises, France [Sahl, Rémi](#), Extreme Weather Expertises, France [Dupont, Paco](#), Extreme Weather Expertises, France [Prothon, Etienne](#), Extreme Weather Expertises, France [Honnorat, Marc](#), Extreme Weather Expertises, France

[TU2.R19.12: BRIGHTNESS TEMPERATURE OBTAINED FROM GLOBAL PRECIPITATION MEASUREMENT MISSION'S DUAL-FREQUENCY PRECIPITATION RADAR](#)

[Kanemaru, Kaya](#), National Institute of Information and Communications Technology, Japan [Iguchi, Toshio](#), ESSIC, University of Maryland / NASA Goddard Space Flight Center, United States [Hamada, Atsushi](#), University of Toyama, Japan

TU2.R20 - Student Paper
Contest Finalists II

Tuesday, September 29, 07:30 - 09:30 • Room 20

[TU2.R20.1: MODEL AND DATA UNCERTAINTY FOR SATELLITE TIME SERIES FORECASTING WITH DEEP RECURRENT MODELS](#)

[Rußwurm, Marc](#), Technical University of Munich, Germany [Ali, Syed Mohsin](#), German Aerospace Center, Germany [Zhu, Xiao Xiang](#), German Aerospace Center, Germany [Gal, Yarin](#), University of Oxford, United Kingdom [Körner, Marco](#), Technical University of Munich, Germany
[TU2.R20.2: WIND VECTOR AND WAVE HEIGHT RETRIEVAL IN INLAND WATERS USING CYGNSS](#)

[Loria, Eric](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States [Zavorotny, Valery](#), CIRES, University of Colorado-Boulder, United States [Zuffada, Cinzia](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

[TU2.R20.3: STRONG POTENTIAL FOR THE DETECTION OF REFROZEN ICE LAYERS IN GREENLAND'S FIRN BY AIRBORNE RADAR SOUNDING](#)

[Culberg, Riley](#), Stanford University, United States [Schroeder, Dustin M.](#), Stanford University, United States

[TU2.R20.4: ARBITRARY NONLINEAR FM WAVEFORM CONSTRUCTION AND ULTRA-WIDEBAND SYNTHESIS](#)

[Prager, Samuel](#), University of Southern California, United States [Hawkins, David](#), NASA Jet Propulsion Laboratory, United States [Moghaddam, Mahta](#), University of Southern California, United States

[TU2.R20.5: META-LEARNING FOR FEW-SHOT TIME SERIES CLASSIFICATION](#)

[Wang, Sherrie](#), Stanford University, United States [Rußwurm, Marc](#), Technical University of Munich, Germany [Körner, Marco](#), Technical University of Munich, Germany [Lobell, David](#), Stanford University, United States

WE1.R1 - Soil Moisture I

Wednesday, September 30, 05:00 - 07:00 • Room 1

[WE1.R1.1: DEVELOPMENT AND VALIDATION OF THE SMOS-IC VERSION 2 \(V2\) SOIL MOISTURE PRODUCT](#)

[Li, Xiaojun](#), INRAE, France [Wigneron, Jean-Pierre](#), INRAE, France [Frappart, Frédéric](#), INRAE;Laboratoire d'Etudes en Géophysique et Océanographie Spatiales, France [Fan, Lei](#), INRAE;School of Geographical Sciences, Nanjing University of Information Science and Technology, France [Wang, Mengjia](#), INRAE;State Key Laboratory of Remote Sensing Science, Faculty of Geographical Science, Beijing Normal University, France [Liu, Xiangzhuo](#), INRAE, France [Al-Yaari, Amen](#), INRAE;Sorbonne Université, UMR 7619 METIS, France [Moisy, Christophe](#), INRAE;Sorbonne Université, UMR 7619 METIS, France

[WE1.R1.2: SOIL MOISTURE RETRIEVAL DEPTHS AT P- AND L-BAND](#)

[Shen, Xiaoji](#), Monash University, Australia [Walker, Jeffrey](#), Monash University, Australia [Ye, Nan](#), Monash University, Australia [Wu, Xiaoling](#), Monash University, Australia [Boopathi, Nithyapriya](#), Monash University, Australia [Zhang, Linlin](#), Monash University, Australia [Zhu, Liujun](#), Monash University, Australia [Yeo, In-Young](#), University of Newcastle, Australia [Jackson, Thomas](#), United States Department of Agriculture, United States [Kerr, Yann](#), Centre d'Etudes Spatiales de la Biosphère, France [Kim, Edward](#), NASA Goddard Space Flight Center, United States [McGrath, Andrew](#), Flinders University, Australia

[WE1.R1.3: AIRBORNE P-BAND PASSIVE MICROWAVE SOIL MOISTURE REMOTE SENSING: MULTI-ANGULAR AND MULTI-TEMPORAL STUDY](#)

[Ye, Nan](#), Monash University, Australia [Wu, Xiaoling](#), Monash University, Australia [Walker, Jeffrey](#), Monash University, Australia [Zhu, Liujun](#), Monash University, Australia [Shen, Xiaoji](#), Monash University, Australia [Boopathi, Nithyapriya](#), Monash University, Australia [Jackson, Thomas](#), USDA, United States [Kerr, Yann](#), Centre d'Etudes Spatiales de la Biosphère, France [Kim, Edward](#), NASA, United States [McGrath, Andrew](#), Flinders University, Australia [Yeo, In-Young](#), University of Newcastle, Australia [PopStefanija, Ivan](#), ProSensing Inc., United States

[WE1.R1.4: PRELIMINARY MODEL FOR SOIL MOISTURE RETRIEVAL USING P-BAND RADIOMETER OBSERVATIONS](#)

[Boopathi, Nithyapriya](#), IITB-Monash Research Academy, India [Ye, Nan](#), Monash University, Australia [Wu, Xiaoling](#), Monash University, Australia [Walker, Jeffrey](#), Monash University, Australia [Shen, Xiaoji](#), Monash University, Australia [Rao, Y.S.](#), Indian Institute of Technology Bombay, India [Jackson, Thomas](#), United States Department of Agriculture, United States [Kerr,](#)

[Yann](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Kim, Edward](#), NASA Goddard Space Flight Center, United States [McGrath, Andrew](#), Flinders University, Australia [Yeo, In-Young](#), University of Newcastle, Australia

[WE1.R1.5: EVALUATION OF SOIL MOISTURE RETRIEVALS FROM ALOS-2, SENTINEL-1 DATA IN GENHE, CHINA](#)

[Cui, Huizhen](#), Beijing Normal University, China [Jiang, Lingmei](#), Beijing Normal University, China [Paloscia, Simonetta](#), National Research Council, Italy [Santi, Emanuele](#), National Research Council, Italy [Pettinato, Simone](#), National Research Council, Italy [Wang, Jian](#), Beijing Normal University, China [Wang, Gongxue](#), Beijing Normal University, China

[WE1.R1.6: SOIL MOISTURE ESTIMATION AT 500M USING SENTINEL-1: APPLICATION TO TUNISIAN SITES](#)

[Foucras, Myriam](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Zribi, Mehrez](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Baghdadi, Nicolas](#), INRAE, France

[WE1.R1.7: DEVELOPMENT OF NISAR SOIL MOISTURE PRODUCT](#)

[Bindlish, Rajat](#), NASA Goddard Space Flight Center, United States [Kim, Seungbum](#), NASA Jet Propulsion Laboratory, United States [Das, Narendra](#), NASA Jet Propulsion Laboratory, United States [Lohman, Rowena](#), Cornell University, United States [Rosen, Paul](#), NASA Jet Propulsion Laboratory, United States [Bawden, Gerald](#), NASA Headquarters, United States

[WE1.R1.8: ROBUST RETRIEVAL OF SURFACE SOIL MOISTURE ACROSS WIDE-RANGING INCIDENCE ANGLES OVER SHORT CROPS: FOR APPLICATION TO NI-SAR](#)

[Kim, Seung-Bum](#), NASA Jet Propulsion Laboratory, United States [Liao, Tien-Hao](#), NASA Jet Propulsion Laboratory, United States

[WE1.R1.9: AN IMPROVED CHANGE DETECTION METHOD FOR SOIL MOISTURE RETRIEVAL USING SENTINEL-1 AND SMAP DATA](#)

[Jiang, Linghai](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Center for Resources Satellite Data and Application, China [Du, Min](#), University of Electronic Science and Technology of China, China [Li, Baihui](#), University of Electronic Science and Technology of China, China [Huang, Xuan](#), University of Electronic Science and Technology of China, China

[WE1.R1.10: MACHINE-LEARNING BASED RETRIEVAL OF SOIL MOISTURE AT HIGH SPATIO-TEMPORAL SCALES USING CYGNSS AND SMAP OBSERVATIONS](#)

[Lei, Fangni](#), Mississippi State University, United States [Senyurek, Volkan](#), Mississippi State University, United States [Kurum, Mehmet](#), Mississippi State University, United States [Gurbuz, Ali](#), Mississippi State University, United States [Moorhead, Robert](#), Mississippi State University, United States [Boyd, Dylan](#), Mississippi State University, United States

[WE1.R1.11: L-BAND HIGH SPATIAL RESOLUTION SOIL MOISTURE MAPPING USING A SMALL UNMANNED AERIAL SYSTEM](#)

[Dai, Eryan](#), University of Colorado Boulder, United States [Venkitasubramony, Aravind](#), University of Colorado Boulder, United States [Gasiewski, Albin](#), University of Colorado Boulder, United States [Stachura, Maciej](#), Black Swift Technologies LLC, United States [Elston, Jack](#), Black Swift Technologies LLC, United States

WE1.R2 - Monitoring and Damage Assessment of Natural Disasters III

Wednesday, September 30, 05:00 - 07:00 • Room 2

[WE1.R2.1: DETERMINING THE SOURCE LOCATION AND EVOLUTION OF THE MAY 2015 SUMMIT INFLATION EVENT AT KILAUEA VOLCANO HAWAII](#)

[Bemelmans, Mark](#), Delft University of Technology, Netherlands [de Zeeuw - van Dalfsen, Elske](#), Royal Dutch Meteorological Institute (KNMI), Netherlands [Poland, Micheal](#), United States Geological Survey, United States

[WE1.R2.2: LOCAL SUBSIDENCE OF ACTIVE VOLCANOES MEASURED BY SYNTHETIC APERTURE RADAR](#)

[Aoki, Yosuke](#), University of Tokyo, Japan [Wang, Xiaowen](#), Southwest Jiaotong University, China

WE1.R2.3: RAPID STRUCTURE DETECTION IN SUPPORT OF DISASTER RESPONSE : A CASE STUDY OF THE 2018 KILAUEA VOLCANO ERUPTION

[Laverdiere, Melanie](#), Oak Ridge National Laboratory, United States [Yang, H. Lexie](#), Oak Ridge National Laboratory, United States [Tuttle, Mark](#), Oak Ridge National Laboratory, United States [Vaughan, Chris](#), FEMA, United States

WE1.R2.4: CO- AND POST-ERUPTIVE SURFACE DEFORMATION FOLLOWING THE 2018 ERUPTION OF KILAUEA VOLCANO REVEALED BY ALOS-2 MULTI-MODE IMAGES

[Abe, Takahiro](#), Japan Aerospace Exploration Agency, Japan [Ohki, Masato](#), Japan Aerospace Exploration Agency, Japan [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan

WE1.R2.5: THE 2015 CALBUCO VOLCANIC CLOUD DETECTION USING GNSS RADIO OCCULTATION AND SATELLITE LIDAR

[Tournigand, Pierre-Yves](#), Università degli Studi di Padova, Italy [Cigala, Valeria](#), Università degli Studi di Padova, Italy [Prata, Alfredo J.](#), AIREIS Pty Ltd., Australia [Steiner, Andrea K.](#), Wegener Center for Climate and Global Change (WEGC), Institute for Geophysics, Astrophysics, and Meteorology/Institute of Physics, University of Graz, Austria [Kirchengast, Gottfried](#), Wegener Center for Climate and Global Change (WEGC), Institute for Geophysics, Astrophysics, and Meteorology/Institute of Physics, University of Graz, Austria [Brenot, Hugues](#), Royal Belgium Institute for Space Aeronomy, Belgium [Clarisse, Lieven](#), Université libre de Bruxelles (ULB), Belgium [Biondi, Riccardo](#), Università degli Studi di Padova, Italy

WE1.R2.6: INTEGRATION OF INSAR AND GNSS DATA TO MONITOR VOLCANIC ACTIVITY OF SAKURAJIMA CALDERAS, JAPAN: FROM SMALL DISPLACEMENT MEASUREMENTS TO GEOPHYSICAL MODELING

[Tessari, Giulia](#), sarmap SA, Switzerland [Puliero, Silvia](#), sarmap SA, Switzerland [Atzori, Simone](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Ogushi, Fumitaka](#), L3 Harris Geospatial, Japan [Pasquali, Paolo](#), sarmap SA, Switzerland

WE1.R2.7: MULTI-ANGLE OBSERVATION OF THE GEOTHERMAL AREA IN THE HAKONE VOLCANO (OWAKUDANI) USING AN AIRBORNE SENSOR (STIC: ARTS-SE'S CAMERA SYSTEMS)

[Jitsufuchi, Tetsuya](#), National Research Institute for Earth Science and Disaster Resilience, Japan

WE1.R2.8: TIDS DETECTION FROM SHIP-BASED GNSS RECEIVER: FIRST TEST ON 2010 MAULE TSUNAMI

[Ravanelli, Michela](#), Sapienza University of Rome, Italy [Crespi, Mattia](#), Sapienza University of Rome, Italy [Foster, James](#), University of Hawai'i at Manoa, United States

WE1.R2.9: DEFORMATION MONITORING AND SOURCE MODELLING BY INSAR OF THE WOLF VOLCANO (GALAPAGOS, ECUADOR)

[Aguaiza, Santiago](#), Instituto Geofísico de la Escuela Politécnica Nacional, Ecuador [Mothes, Patricia](#), Instituto Geofísico de la Escuela Politécnica Nacional, Ecuador [Tolomei, Cristiano](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Trasatti, Elisa](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy

WE1.R2.10: INSAR DEFORMATION ANALYSIS AND SOURCE MODELLING OF THE GUAGUA PICHINCHA VOLCANO (ECUADOR)

[Yépez, Marco](#), Escuela Politécnica Nacional, Ecuador [Trasatti, Elisa](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Tolomei, Cristiano](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Atzori, Simone](#), Istituto Nazionale di Geofisica e Vulcanologia, Italy [Mothes, Patricia](#), Escuela Politécnica Nacional, Ecuador [Ruiz, Marco](#), Escuela Politécnica Nacional, Ecuador [Samaniego, Pablo](#), Université Clermont Auvergne, France

WE1.R2.11: EXPLOITING INSAR ON A LARGE SCALE FOR TECTONICS AND VOLCANIC MONITORING

[Hooper, Andrew](#), University of Leeds, United Kingdom [Wright, Tim](#), University of Leeds, United Kingdom [Weiss, Jonathan](#), University of Potsdam, Germany [Rollins, Chris](#), University of Leeds, United Kingdom [Gaddes, Matthew](#), University of Leeds, United Kingdom [Lazecky, Milan](#), University of Leeds, United Kingdom [Morishita, Yu](#), Geospatial Information Authority of Japan, Japan [Walters, Richard](#), Durham University, United Kingdom [Wang, Hua](#), Guangdong University of Technology, China [Hussain, Ekbal](#), British Geological Survey, United Kingdom

WE1.R2.12: PROTOTYPING OF A MULTI-HAZARD EARLY WARNING SYSTEM FOR AVIATION AND DEVELOPMENT OF NRT ALERT PRODUCTS WITHIN THE EUNADICS-AV AND OPAS PROJECTS

[van Gent, Jeroen](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Brenot, Hugues](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Theys, Nicolas](#), Royal Belgian Institute for Space Aeronomy (BIRA-IASB), Belgium [Clarisse, Lieven](#), Université Libre de Bruxelles (ULB), Belgium [Wilson, Scott](#), EUROCONTROL, Belgium [Clarkson, Rory](#), Rolls Royce, United Kingdom [Van Roozendaal, Michel](#), Royal Belgian Institute for Space

WE1.R3 - Differential SAR Interferometry II

Wednesday, September 30, 05:00 - 07:00 • Room 3

WE1.R3.1: APPLICATION OF L-BAND SCANSAR MODE IN MONITORING LAND SUBSIDENCE

[Bin, Liu](#), China Aero Geophysical Survey and Remote Sensing Center For Natural Resources, China [Daqing, Ge](#), China Aero Geophysical Survey and Remote Sensing Center For Natural Resources, China [Man, Li](#), China Aero Geophysical Survey and Remote Sensing Center For Natural Resources, China [Ling, Zhang](#), China Aero Geophysical Survey and Remote Sensing Center For Natural Resources, China

WE1.R3.2: MAPPING THE RATE OF CARBON MINERALIZATION IN OMAN OPHIOLITES USING SENTINEL-1 INSAR TIME SERIES

[Zebker, Molly](#), University of Texas at Austin, United States [Chen, Jingyi](#), University of Texas at Austin, United States [Hesse, Marc](#), University of Texas at Austin, United States

WE1.R3.3: POST-FLOOD SURFACE DEFORMATION ANALYSIS USING P-SBAS-DINSAR SENTINEL-1 PROCESSING IN THE NORTH OF TUNISIA

[Chaabani, Chayma](#), University of Carthage, Higher School of Communications of Tunis SUPCOM, COSIM Lab, Tunisia [Barbouchi, Meriem](#), University of Carthage, National Agronomic Institute of Tunisia (INAT), Tunisia [Abdelfattah, Riadh](#), University of Carthage, Higher School of Communications of Tunis SUPCOM, COSIM Lab, Tunisia

WE1.R3.4: ATMOSPHERIC CORRECTION OF SAR IMAGES BASED ON PS-INSAR

[Zhang, Mingyu](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Centre for Resources Satellite Data and Application, China [Li, Baihui](#), University of Electronic Science and Technology of China, China

WE1.R3.5: LANDSLIDE DISPLACEMENT MONITORING BY TIME SERIES INSAR COMBINING PS AND DS TARGETS

[Jiang, Yanan](#), Chengdu University of Technology, China [Xu, Qiang](#), Chengdu University of Technology, China [Lu, Zhong](#), South Methodist University, United States

WE1.R3.6: PERMOFROST OBERVATION USING ALOS-2 PALSAR-2 DATA IN THE NORTHERN QINGHAI-TIBET PLATEAU

[Wang, Chao](#), Chinese Academy of Sciences, China [Dong, Longkai](#), Chinese Academy of Sciences, China [Zhang, Hong](#), Chinese Academy of Sciences, China [Tang, Yixian](#), Chinese Academy of Sciences, China [Zhang, Bo](#), Chinese Academy of Sciences, China [Wu, Fan](#), Chinese Academy of Sciences, China

WE1.R3.7: MONITORING DAM STABILITY USING NEW SAR INTERFEROMETRY TIME SERIES

[Du, Zheyuan](#), University of New South Wales, Australia [Ge, Linlin](#), University of New South Wales, Australia [Ng, Alex Hay-man](#), University of New South Wales, Australia [Zhang, Qi](#), University of New South Wales, Australia

WE1.R3.8: SURFACE DEFORMATION OF HIGH-SPEED RAILWAY BETWEEN CHANGCHUN AND HARBIN BASED ON TIME-SERIES INSAR TECHNIQUE

[Meng, Zhiguo](#), Jilin University, China [Shu, Chuanzeng](#), Jilin University, China [Wu, Qiong](#), Jilin University, China [Wang, Yongzhi](#), Jilin University, China [Yang, Ying](#), Tianjin Research Institute for Water Transport Engineering M.O.T., China [Fu, Zhe](#), Information Project Evaluation Centre of Beijing, China

WE1.R3.9: MULTI-TEMPORAL INSAR MONITORING OF THE BENINAR DAM (SE SPAIN)

[Ruiz-Armenteros, Antonio M.](#), University of Jaén, Spain [Delgado, J. Manuel](#), University of Jaén, Spain [Bakon, Matus](#), insar.sk, Slovakia [Lamas-Fernández, Francisco](#), Universidad de Granada, Spain [Gil, Antonio J.](#), Universidad de Jaén, Spain [Marchamalo-Sacristán, Miguel](#), Politechnical University of Madrid, Spain [Sánchez-Ballesteros, Vanesa](#), Universidad de Jaén, Spain [Papco, Juraj](#), Slovak University of Technology in Bratislava, Slovakia [González-Rodrigo, Beatriz](#), Politechnical University of Madrid, Spain [Lazecky, Milan](#), UNIVERSITY OF LEEDS, United Kingdom [Perissin13, Daniele](#), University Degli Studi de Padova, Italy [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

WE1.R3.10: HIGH-PASS FILTERS TO REDUCE THE EFFECTS OF BROAD ATMOSPHERIC CONTRIBUTIONS IN SBAS INVERSIONS: A CASE STUDY IN THE DELAWARE BASIN

[Pepin, Karissa](#), Stanford University, United States [Zebker, Howard](#), Stanford University, United States [Ellsworth, William](#), Stanford University, United States

WE1.R3.11: INSAR INVESTIGATION ON DRAA-DOUAMIS SINKHOLES IN CHERIA NORTHEASTERN OF ALGERIA

[Hamdi, Loubna](#), Research laboratory of Sedimentary Environment, Mineral and Water resources of Eastern Algeria, Algeria [Defaflia, Nabil](#), Research laboratory of Sedimentary Environment, Mineral and Water resources of Eastern Algeria, Algeria [Fehdi, Chemssedine](#), Water and Environment Laboratory, Department of Earth Science, Faculty of Exact Science, Science of Nature Science, Algeria [Merghadi, Abdelaziz](#), Research laboratory of Sedimentary Environment, Mineral and Water resources of Eastern Algeria, Algeria

WE1.R4 - Lidar Science and Technology Wednesday, September 30, 05:00 - 07:00 • Room 4

WE1.R4.1: THE PERFORMANCE OF ICESAT-2'S STRONG AND WEAK BEAMS IN ESTIMATING GROUND ELEVATION AND FOREST HEIGHT

[Zhu, Xiaoxiao](#), Aerospace Information Research Institute, China [Nie, Sheng](#), Aerospace Information Research Institute, China [Wang, Cheng](#), Aerospace Information Research Institute, China [Xi, Xiaohuan](#), Aerospace Information Research Institute, China

WE1.R4.2: FLOATING DOPPLER WIND LIDAR MEASUREMENT OF WIND TURBULENCE: A CLUSTER ANALYSIS

[Salcedo-Bosch, Andreu](#), Universitat Politècnica de Catalunya (UPC), Spain [Gutierrez-Antunano, Miguel Angel](#), Universitat Politècnica de Catalunya (UPC), Spain [Tiana-Alsina, Jordi](#), Universitat Politècnica de Catalunya (UPC), Spain [Rocadenbosch, Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain

WE1.R4.3: OFFSHORE DOPPLER WIND LIDAR ASSESSMENT OF ATMOSPHERIC STABILITY

[Araujo da Silva, Marcos Paulo](#), Universitat Politècnica de Catalunya (UPC), Spain [Salcedo-Bosch, Andreu](#), Universitat Politècnica de Catalunya (UPC), Spain [Gutierrez-Antunano, Miguel Angel](#), Universitat Politècnica de Catalunya (UPC), Spain [Rocadenbosch, Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain

WE1.R4.4: LOW-SWAP ELASTIC BACKSCATTER LIDAR FOR CLOSE-RANGE AEROSOL DETECTION

[Sox, Leda](#), Georgia Tech Research Institute, United States [Meraz, Nathan](#), Georgia Tech Research Institute, United States [Valenta, Christopher](#), Georgia Tech Research Institute, United States

WE1.R4.5: TIME-FREQUENCY DOMAIN NONLINEAR PHASE COMPENSATION FOR FMCW LADAR SIGNALS

[Wang, Rongrong](#), Chinese Academy of Sciences, China [Xiang, Maosheng](#), Chinese Academy of Sciences, China [Wang, Bingnan](#), Chinese Academy of Sciences, China [Li, Chuang](#), Xi'an Jiaotong University, China

WE1.R4.6: EVALUATION OF SMALL-FOOTPRINT FULL-WAVEFORM AIRBORNE LIDAR INSTRUMENT REQUIREMENTS USING DIRSIG SIMULATIONS OF FORESTS

[Krause, Keith](#), Battelle, United States

WE1.R4.7: COMPARISON OF TLS AND ULS DATA FOR WILDLIFE HABITAT

ASSESSMENTS IN TEMPERATE WOODLANDS

[Shokirov, Shukhrat](#), Australian National University, Australia [Levick, Shaun](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Jucker, Tommaso](#), University of Bristol, United Kingdom [Youngentob, Kara](#), Australian National University, Australia [Yeoh, Paul](#), Commonwealth Scientific and Industrial Research Organisation, Australia

WE1.R5 - Advanced Clustering Wednesday, September 30, 05:00 - 07:00 • Room 5
Methods for Remote Sensing
Data I

[WE1.R5.1: L0-MOTIVATED LOW RANK SPARSE SUBSPACE CLUSTERING FOR](#)
[HYPERSPSCTRAL IMAGERY](#)

[Tian, Long](#), Mississippi State University, United States [Du, Qian](#), Mississippi State University, United States [Kopriva, Ivica](#), Ruđer Bošković Institute, Croatia (Hrvatska)

[WE1.R5.2: LOCALLY CONSTRAINED COLLABORATIVE REPRESENTATION BASED](#)
[FISHER'S LDA FOR CLUSTERING OF HYPERSPSCTRAL IMAGES](#)

[Liu, Siyu](#), Nanjing University of Science and Technology, China [Huang, Nan](#), Nanjing University of Science and Technology, China [Xiao, Liang](#), Nanjing University of Science and Technology, China

[WE1.R5.3: PATCH-BASED DIFFUSION LEARNING FOR HYPERSPSCTRAL IMAGE](#)
[CLUSTERING](#)

[Murphy, James](#), Tufts University, United States

[WE1.R5.4: SATELLITE AGRICULTURAL MONITORING IN UKRAINE AT COUNTRY](#)
[LEVEL: WORLD BANK PROJECT](#)

[Kussul, Nataliia](#), Space Research Institute National Academy of Sciences of Ukraine and State Space Agency of Ukraine, Ukraine [Shelestov, Andrii](#), Space Research Institute National Academy of Sciences of Ukraine and State Space Agency of Ukraine, Ukraine [Yailymova, Hanna](#), Earth Observing System Data Analytics, Ukraine [Yailymov, Bohdan](#), Space Research Institute National Academy of Sciences of Ukraine and State Space Agency of Ukraine, Ukraine [Lavreniuk, Mykola](#), Space Research Institute National Academy of Sciences of Ukraine and State Space Agency of Ukraine, Ukraine [Ilyashenko, Matviy](#), Earth Observing System Data Analytics, Ukraine

[WE1.R5.5: CLASSIFICATION OF MARTIAN TERRAINS VIA DEEP CLUSTERING OF](#)
[MASTCAM IMAGES](#)

[Parente, Mario](#), University of Massachusetts Amherst, United States [Panambur, Tejas](#), University of Massachusetts Amherst, United States

[WE1.R5.6: SCALING UP A MULTISPECTRAL RESNET-50 TO 128 GPUS](#)

[Sedona, Rocco](#), Forschungszentrum Jülich, Germany [Cavallaro, Gabriele](#), Forschungszentrum Jülich, Germany [Jitsev, Jenia](#), Forschungszentrum Jülich, Germany [Strube, Alexandre](#), Forschungszentrum Jülich, Germany [Riedel, Morris](#), Forschungszentrum Jülich, Germany [Book, Matthias](#), University of Iceland, Iceland

[WE1.R5.7: SPATIAL-SPECTRAL SMOOTH GRAPH CONVOLUTIONAL NETWORK FOR](#)
[MULTISPECTRAL POINT CLOUD CLASSIFICATION](#)

[Wang, Qingwang](#), Harbin Institute of Technology, China [Zhang, Xiangrong](#), Heilongjiang Institute Technology, China [Gu, Yanfeng](#), Harbin Institute of Technology, China

[WE1.R5.8: INFLUENCE OF ALEATORIC UNCERTAINTY ON SEMANTIC CLASSIFICATION](#)
[OF AIRBORNE LIDAR POINT CLOUDS: A CASE STUDY WITH RANDOM FOREST](#)
[CLASSIFIER USING MULTISCALE FEATURES](#)

[Sreevalsan-Nair, Jaya](#), International Institute of Information Technology, Bangalore, India [Mohapatra, Pragyan](#), International Institute of Information Technology, Bangalore, India

[WE1.R5.9: GLOBAL SEMANTIC LAND USE/LAND COVER BASED ON HIGH](#)
[RESOLUTION SATELLITE IMAGERY USING ENSEMBLE NETWORKS](#)

[Tapper, Gustav](#), Vicon, Sweden [Sundelius, Carl](#), Vicon, Sweden [Haglund, Leif](#), Vicon, Sweden

[WE1.R5.10: UNSUPERVISED DOMAIN ADAPTATION TECHNIQUES FOR](#)

CLASSIFICATION OF SATELLITE IMAGE TIME SERIES

[Lucas, Benjamin](#), Monash University, Australia [Pelletier, Charlotte](#), Bretagne-Sud University, France [Schmidt, Daniel](#), Monash University, Australia [Webb, Geoffrey](#), Monash University, Australia [Petitjean, Francois](#), Monash University, Australia

WE1.R5.11: APPLYING A PHENOLOGICAL OBJECT-BASED IMAGE ANALYSIS (PHENOBA) FOR AGRICULTURAL LAND CLASSIFICATION: A STUDY CASE IN THE BRAZILIAN CERRADO

[Bendini, Hugo](#), INPE, Brazil [Fonseca, Leila](#), INPE, Brazil [Soares, Anderson](#), INPE, Brazil [Rufin, Philippe](#), Humboldt-Universität zu Berlin, Germany [Schwieder, Marcel](#), Humboldt-Universität zu Berlin, Germany [Rodrigues, Marcos](#), INPE, Brazil [Maretto, Raian](#), INPE, Brazil [Korting, Thales](#), INPE, Brazil [Leitao, Pedro](#), Humboldt-Universität zu Berlin, Portugal [Sanches, Ieda](#), INPE, Brazil [Hostert, Patrick](#), Humboldt-Universität zu Berlin, Germany

WE1.R6 - Model Inversion and Parameter Estimation Wednesday, September 30, 05:00 - 07:00 • Room 6

WE1.R6.1: INVERSION ESTIMATES OF METHANE EMISSION IN THE MIDDLE EAST IN 2010-2017 WITH GOSAT OBSERVATIONS

[Wang, Fenjuan](#), NIES, Japan [Maksyutov, Shamil](#), NIES, Japan [Janardanan, Rajesh](#), NIES, Japan [Tsuruta, Aki](#), Finnish Meteorological Institute, Finland [Ito, Akihiko](#), NIES, Japan [Morino, Isamu](#), NIES, Japan [Yoshida, Yukio](#), NIES, Japan [Kaiser, Johannes W.](#), Deutscher Wetterdienst, Germany [Maenhout, Greet Janssens](#), European Commission Joint Research Centre, Italy [Dlugokencky, Ed](#), NOAA, United States [Mammarella, Ivan](#), University of Helsinki, Finland [Lavric, Jost V.](#), Max Planck Institute for Biogeochemistry, Germany [Matsunaga, Tsuneo](#), NIES, Japan

WE1.R6.2: MAPPING ANTIMONY CONCENTRATION OVER GEOTHERMAL AREAS USING HYPERSPECTRAL AND THERMAL REMOTE SENSING

[Rodriguez-Gomez, Cecilia](#), Massey University, New Zealand [Kereszturi, Gabor](#), Massey University, New Zealand [Reeves, Robert](#), GNS Science, New Zealand [Mead, Stuart](#), Massey University, New Zealand [Pullanagari, Reddy](#), Massey University, New Zealand [Rae, Andrew](#), GNS Science, New Zealand [Jeyakumar, Paramsothy](#), Massey University, New Zealand

WE1.R6.3: A REGULARIZED TENSOR NETWORK FOR CYCLONE WIND SPEED ESTIMATION

[Chen, Zhao](#), Donghua University, China [Yu, Xingxing](#), Donghua University, China [Zhou, Feng](#), Donghua University, China [Yang, Bin](#), Donghua University, China

WE1.R6.4: JOINT RANGE-ANGLE-DOPPLER RESOLUTION CAPABILITY ANALYSIS FOR FDA RADAR SIGNAL VIA GENERALIZED AMBIGUITY FUNCTION

[Gui, Ronghua](#), University of Electronic Science and Technology of China, China [Huang, Bang](#), University of Electronic Science and Technology of China, China [Wang, Wen-Qin](#), University of Electronic Science and Technology of China, China

WE1.R6.5: PARKING OCCUPANCY ESTIMATION ON PLANETSCOPE SATELLITE IMAGES

[Drouyer, Sebastien](#), ENS Paris Saclay, France

WE1.R6.6: HIGH RESOLUTION SPATIAL MAPPING OF SOIL NUTRIENTS USING K - NEAREST NEIGHBOR BASED CNN APPROACH

[Das, Kamal](#), IBM Research India, India [Mandal, Subhojit](#), Indian Institute of Information Technology (IIIT), Sri City, India [Thakur, Mainak](#), Indian Institute of Information Technology (IIIT), Sri City, India

WE1.R6.7: ESTIMATING LEAF AREA INDEX AT 250M SPATIAL RESOLUTION FROM MODIS DATA USING GENERAL REGRESSION NEURAL NETWORKS

[Zhang, Yunteng](#), Beijing Normal University, China [Xiao, Zhiqiang](#), Beijing Normal University, China

WE1.R6.8: SURFACE MODELING FOR AIRBORNE LIDAR

[Blanton, Hunter](#), University of Kentucky, United States [Grate, Sean](#), University of Kentucky, United States [Jacobs, Nathan](#), University of Kentucky, United States

WE1.R6.9: BUSHFIRE SEVERITY MAPPING USING SENTINEL-1 AND -2 IMAGERY

[Rahman, Shahriar](#), Macquarie University, Australia [Chang, Hsing-Chung](#), Macquarie University, Australia [Tomkins, Kerrie](#), Macquarie University, Australia [Kehir, Warwick](#), Rural Fire Service, NSW, Australia

[WE1.R6.10: MODELING EARLY INDICATORS OF GRAPEVINE PHYSIOLOGY USING HYPERSPECTRAL IMAGING AND PARTIAL LEAST SQUARES REGRESSION \(PLSR\)](#)

[Maimaitiyiming, Matthew](#), University of Missouri-Columbia, United States [Maimaitijiang, Maitiniyazi](#), Saint Louis University, United States [Sidike, Paheding](#), Purdue University Northwest, United States [Sagan, Vasit](#), Saint Louis University, United States [Migicovsky, Zoë](#), Dalhousie University, Canada [Chitwood, Daniel](#), Michigan State University, United States [Cousins, Peter](#), E. & J. Gallo Winery, United States [Dokoozlian, Nick](#), E. & J. Gallo Winery, United States [Miller, Allison](#), Saint Louis University, United States [Kwasniewski, Misha](#), University of Missouri-Columbia, United States

[WE1.R6.11: ESTIMATING DISPLACED POPULATIONS FROM OVERHEAD](#)

[Hadzic, Armin](#), University of Kentucky, United States [Christie, Gordon](#), Johns Hopkins University Applied Physics Laboratory, United States [Freeman, Jeffrey](#), Johns Hopkins University Applied Physics Laboratory, United States [Dismer, Amber](#), Centers for Disease Control and Prevention, United States [Bullard, Stevan](#), Agency for Toxic Substances and Disease Registry (ATSDR), United States [Greiner, Ashley](#), Centers for Disease Control and Prevention, United States [Jacobs, Nathan](#), University of Kentucky, United States [Mukherjee, Ryan](#), Johns Hopkins University Applied Physics Laboratory, United States

WE1.R7 - Optical Satellite Missions II

Wednesday, September 30, 05:00 - 07:00 • Room 7

[WE1.R7.1: ESTABLISHING LAUNCH READINESS OF NASA ISS INSTRUMENT OCO-3](#)

[Srivastava, Priyanka](#), NASA Jet Propulsion Laboratory, United States [Bennett, Matthew](#), NASA Jet Propulsion Laboratory, United States [Bedrosian, Gasia](#), NASA Jet Propulsion Laboratory, United States [Rosenberg, Robert](#), NASA Jet Propulsion Laboratory, United States [Solish, Benjamin](#), NASA Jet Propulsion Laboratory, United States [Basilio, Ralph](#), NASA Jet Propulsion Laboratory, United States

[WE1.R7.2: CAPABILITIES OF THE NEW MOROCCAN SATELLITE MOHAMMED-VI FOR PLANIMETRIC AND ALTIMETRIC MAPPING](#)

[El-Harti, Abderrazak](#), University Sultan Moulay Slimane, Morocco [Bannari, Abderrazak](#), Arabian Gulf University, Bahrain [Manyari, Yassin](#), University Sultan Moulay Slimane, Morocco [Nabil, Abdelghani](#), University Sultan Moulay Slimane, Morocco [Lahboub, Youness](#), University Sultan Moulay Slimane, Morocco [El-Ghmari, Abderrahman](#), University Sultan Moulay Slimane, Morocco [Bachaoui, El-Mostapha](#), University Sultan Moulay Slimane, Morocco

[WE1.R7.3: RADIOMETRIC CALIBRATION OF FENGYUN-3D MERSI-II SATELLITE: A CASE STUDY IN LAKE QINGHAI, CHINA](#)

[Lin, Yan](#), Sun Yat-Sen University, China [Hu, Yonghong](#), Chinese Academy of Sciences, China [Li, Xiaoming](#), Chinese Academy of Sciences, China [Li, Jun](#), Sun Yat-Sen University, China [Zhang, Yong](#), National Satellite Meteorological Center, China [Dou, Changyong](#), Chinese Academy of Sciences, China [Plaza, Javier](#), University of Extremadura, Spain [Plaza, Antonio](#), University of Extremadura, Spain

[WE1.R7.4: MULTI-THEMATIC EARTH MONITORING CAPABILITIES USING VENMS OPTICAL TIME SERIES](#)

[Raynaud, Jean-Louis](#), Centre National d'Etudes Spatiales (CNES), France [Dedieu, Gérard](#), Centre d'Etudes Spatiales de la Biosphère, France [Binet, Renaud](#), Centre National d'Etudes Spatiales (CNES), France [Rolland, Amandine](#), Thalès Services, France [Gascoin, Simon](#), Centre d'Etudes Spatiales de la Biosphère, France [Pelou, Sophie](#), Centre National d'Etudes Spatiales (CNES), France [Dick, Arthur](#), Centre National d'Etudes Spatiales (CNES), France [Dejus, Michel](#), Centre National d'Etudes Spatiales (CNES), France [Hagolle, Olivier](#), Centre d'Etudes Spatiales de la Biosphère, France [Specht, Bernard](#), Centre National d'Etudes Spatiales (CNES), France

[WE1.R7.5: NOAA-20 VIIRS ON-ORBIT CALIBRATION IMPROVEMENTS](#)

[Xiong, Xiaoxiong](#), NASA, United States [Cao, Changyong](#), NOAA, United States [Angal, Amit](#), SSAI, United States [Blonski, Slawomir](#), Global Science and Technology Inc., United States [Chiang, Kwofu](#), SSAI, United States [Choi, Taeyoung](#), Global Science and Technology Inc.,

United States [Gu, Yalong](#), Global Science and Technology Inc., United States [Lei, Ning](#), SSAI, United States [Li, Yonghong](#), SSAI, United States [Shao, Xi](#), Univ. of Maryland, United States [Twedt, Kevin](#), SSAI, United States [Upreti, Sirish](#), Univ. of Maryland, United States [Wang, Wenhui](#), Univ. of Maryland, United States

WE1.R7.6: THE NASA MASS CHANGE DESIGNATED OBSERVABLE STUDY: OVERVIEW, PROGRESS, AND FUTURE PLANS

[Wiese, David](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Boening, Carmen](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Zlotnicki, Victor](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Luthcke, Scott](#), NASA Goddard Space Flight Center, United States [Loomis, Bryant](#), NASA Goddard Space Flight Center, United States [Rodell, Matthew](#), NASA Goddard Space Flight Center, United States [Saubert, Jeanne](#), NASA Goddard Space Flight Center, United States [Bearden, David](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Chronis, Jonathan](#), NASA Langley Research Center, United States [Horner, Scott](#), NASA Ames Research Center, United States [Webb, Frank](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Biestock, Bernard](#), California Institute of Technology, Jet Propulsion Laboratory, United States [Tsoussi, Lucia](#), NASA Headquarters, United States

WE1.R7.7: GEOMAGNETIC ANOMALIES IN O+ CONCENTRATION CONSIDERING THE SUN SEASONAL POSITION ACCORDING TO THE DATA FROM THE COMPLEX "RIMS"

[Shirokov, Igor](#), Sevastopol State University, Russia [Ivanov, Mikhail](#), Institute of Applied Geophysics, Russia [Lapshin, Vladimir](#), Institute of Applied Geophysics, Russia [Kiryushov, Boris](#), Institute of Applied Geophysics, Russia [Minligareev, Vladimir](#), Institute of Applied Geophysics, Russia

WE1.R7.8: NOAA20 AND S-NPP VIIRS LAND SURFACE TEMPERATURE PRODUCT VALIDATION AND INTER-COMPARISON

[Liu, Yuling](#), Earth System Science Interdisciplinary Center at University of Maryland, College Park, United States [Yu, Yunyue](#), Center for Satellite Applications and Research, NOAA/NESDIS, United States [Yu, Peng](#), Earth System Science Interdisciplinary Center at University of Maryland, College Park, United States [Wang, Heshun](#), Earth System Science Interdisciplinary Center at University of Maryland, College Park, United States

WE1.R7.9: LANDSAT SURFACE REFLECTANCE VALIDATION SITE SELECTION

[Maddox, Emily](#), KBR, United States [Zavesky, Landon](#), United Support Services (USS), United States

WE1.R7.10: THE NEW LANDSAT GLOBAL LAND SURVEY (GLS) DEM

[Franks, Shannon](#), KBR, United States [Storey, James](#), KBR, United States [Rengarajan, Rajagopalan](#), KBR, United States

WE1.R7.11: A STUDY OF SPECTRA BANDWIDTH INDEX SETTING OF INFRARED IMAGER BASED ON SPECTRUM SIMULATION

[Wei, Dandan](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Liu, Yao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

WE1.R7.12: NASA INCUBATION STUDY ON PLANETARY BOUNDARY LAYER

[Teixeira, Joao](#), NASA Jet Propulsion Laboratory, United States [Piepmeier, Jeffrey](#), NASA Goddard Space Flight Center, United States [Nehrir, Amin](#), NASA Langley Research Center, United States

WE1.R8 - Coastal Zone

Wednesday, September 30, 05:00 - 07:00 • Room 8

WE1.R8.1: PRELIMINARY RESULTS ON BLUE CARBON CONTENT MAPPING IN COASTAL WATERS OF THE ARABIAN GULF USING SATELLITE-BASED MODELING APPROACH

[Alkhatlan, Alanoud](#), Arabian Gulf University, Bahrain [Bannari, Abderrazak](#), Arabian Gulf University, Bahrain [Ali, Thamer-Salim](#), Arabian Gulf University, Bahrain [Abahussain, Asma](#), Arabian Gulf University, Bahrain

WE1.R8.2: POTENTIAL OF SENTINEL 1 SATELLITES FOR MAPPING TIDAL FLATS.

CASE STUDY OF THE BAIE DES VEYS (NORMANDY, FRANCE)

[Deroin, Jean-Paul](#), Université de Reims Champagne-Ardenne, France

WE1.R8.3: INSAR FOR TIDAL ESTIMATION IN SUPPORT OF CVD, VIRTUAL GAUGES AND DYNAMIC PRODUCTS

[Chénier, René](#), Government of Canada, Canada [Blondel, Enrique](#), Government of Canada, Canada [Omari, Khalid](#), Government of Canada, Canada

WE1.R8.4: INVESTIGATION OF SUBMESOSCALE EDDIES FROM MODIS COLOR INDEX PRODUCTS IN COASTAL REGIONS: A CASE STUDY IN SUBEI SHOAL

[Li, Gang](#), Nanjing University of Information Science and Technology, China [He, Yijun](#), Nanjing University of Information Science and Technology, China [Liu, Guoqiang](#), Nanjing University of Information Science and Technology, China [Hu, Chuanmin](#), University of South Florida, United States [Zhang, Yingjun](#), University of South Florida, United States

WE1.R8.5: STORM SURGE INUNDATION MODELING OF FIVE WINTER STORMS IN SAGO-CASCO BAYS: A FVCOM BASED NUMERICAL STUDY

[Deb, Saswati](#), Fisheries and Oceans Canada, Gulf Fisheries Centre, Canada [Xue, Huijie](#), University of Maine, United States [Rao, Shivanesh](#), University of New South Wales, Australia

WE1.R8.6: STATISTICAL ANALYSES OF MARINE OIL POLLUTION IN A SEA REGION OF HIGH ECONOMIC USE: THE WESTERN JAVA SEA

[Gade, Martin](#), Universität Hamburg, Germany [Mohr, Veronika](#), Universität Hamburg, Germany

WE1.R8.7: HIGH-RESOLUTION REMOTE SENSING, IN-SITU OBSERVATIONS, AND MODELING OF LOW-SALINITY LENSES IN THE PRESENCE OF OIL SLICK

[Soloviev, Alexander](#), Nova Southeastern University, United States [Vanderplow, Breanna](#), Nova Southeastern University, United States [Dean, Cayla](#), Nova Southeastern University, United States [Schwarz, Egbert](#), German Aerospace Center, Germany [Lehner, Susanne](#), German Aerospace Center, Germany [Hui, Shen](#), Bedford Institute of Oceanography, Canada [Perrie, William](#), Bedford Institute of Oceanography, Canada [Schuler, Paul](#), Oil Spill Response Limited, United States

WE1.R8.8: AUTOMATED COASTLINE DETECTION FROM LANDSAT 8 OLI/TIRS IMAGES WITH THE PRESENCE OF INLAND WATER BODIES IN ANDAMAN

[Mondal, Rajdeep](#), Indian Institute of Technology Kharagpur, India [Mukherjee, Jit](#), Indian Institute of Technology Kharagpur, India [Mukhopadhyay, Jayanta](#), Indian Institute of Technology Kharagpur, India

WE1.R8.9: SURFZONE BATHYMETRY ESTIMATION USING WAVE CHARACTERISTICS OBSERVED BY UNMANNED AERIAL SYSTEMS

[McDonald, Jesse](#), Lewis-Clark State College, United States [Pollard, Jason](#), Texas A&M University-Corpus Christi, United States [Starek, Michael J.](#), Texas A&M University-Corpus Christi, United States [Kar, Dulal](#), Texas A&M University-Corpus Christi, United States

WE1.R8.10: AUTOMATIC MAPPING OF TROPICAL CYCLONE-INDUCED COASTAL INUNDATION IN SAR IMAGERY BASED ON CLUSTERING OF DEEP FEATURES

[Liu, Bin](#), Shanghai Ocean University, China [Li, Xiaofeng](#), Institute of Oceanology, Chinese Academy of Sciences, China [Zheng, Gang](#), Second Institute of Oceanography, Ministry of Natural Resources, China

WE1.R8.11: INTRA-ANNUAL COASTAL DYNAMICS THROUGH REMOTE SENSORS AND MORPHOSEDIMENTARY PATTERNS, REÑACA BEACH AND CONCON BAY, CENTRAL CHILE.

[Briceno-de-Urbaneja, Idania](#), Universidad Mayor, Chile [Ugalde-Peralta, Raul](#), Universidad Mayor, Chile [Sanchez-García, Elena](#), Universitat Politècnica de València, Spain [Pardo-Pascual, Josep](#), Universitat Politècnica de València, Spain [Palomar-Vazquez, Jesus](#), Universitat Politècnica de València, Spain [Perez-Martinez, Waldo](#), Universidad Mayor, Chile [Vidal-Paez, Paulina](#), Universidad Mayor, Chile [Parrao-Barrera, Maximiliano](#), Universidad Mayor, Chile

WE1.R8.12: SPATIAL-TEMPORAL PATTERNS OF TOTAL SUSPENDED MATTERS (TSM) IN THE YELLOW RIVER ESTUARY

[Huang, Pu](#), Texas A&M University-Corpus Christi, United States [Huang, Yuxia](#), Texas A&M University-Corpus Christi, United States

WE1.R9 - Sea Ice II and Permafrost

Wednesday, September 30, 05:00 - 07:00 • Room 9

WE1.R9.1: MONITORING ICE COVERING LAKE SAROMA BY USING SENTINEL-1 C-BAND SAR DATA

[Wakabayashi, Hiroyuki](#), Nihon University, Japan [Tonooka, Hideyuki](#), Ibaraki University, Japan

WE1.R9.2: SEA ICE AND OPEN WATER CLASSIFICATION OF SAR IMAGES USING A DEEP LEARNING MODE

[Ren, Yibin](#), Institute of Oceanology, China [Xu, Huan](#), Institute of Oceanology, China [Liu, Bin](#), Shanghai Ocean University, China [Li, Xiaofeng](#), Institute of Oceanology, Chinese Academy of Sciences and Center for Ocean Mega-Science, China

WE1.R9.3: SEA-ICE CLASSIFICATION BASED ON OPTICAL IMAGE USING MORPHOLOGICAL PROFILE FEATURES

[Zhou, Yuchan](#), Beijing Institute of Technology, China [Li, Wei](#), Beijing Institute of Technology, China [Ren, Peng](#), China University of Petroleum (East China), China [Li, Zhongwei](#), China University of Petroleum (East China), China [Tao, Ran](#), Beijing Institute of Technology, China

WE1.R9.4: UNSUPERVISED CLUSTERING OF C-BAND POLSAR DATA OVER SEA ICE

[Hänsch, Ronny](#), German Aerospace Center (DLR), Germany [Amao, Joel](#), German Aerospace Center (DLR), Germany [Horn, Ralf](#), German Aerospace Center (DLR), Germany [Jäger, Marc](#), German Aerospace Center (DLR), Germany [Scheiber, Rolf](#), German Aerospace Center (DLR), Germany

WE1.R9.5: A DISTRIBUTION CONTROLLABLE SIMULATION METHOD OF REMOTE SENSING SEA-ICE IMAGES

[Zhao, Chunhui](#), Harbin Engineering University, China [Dong, Xiaoyu](#), Harbin Engineering University, China [Yan, Yiming](#), Harbin Engineering University, China [Su, Nan](#), Harbin Engineering University, China [Huang, Bowen](#), Jushri Technologies, INC, China

WE1.R9.6: SHIP NAVIGATION ROUTE PLANNING USING TOPOLOGY OF SEA ICE CHANNELS EXTRACTED FROM HIGH RESOLUTION SATELLITE IMAGES

[Chen, Xi](#), Peking University, China [Shen, Wei](#), Shanghai Ocean University, China [Li, Huan](#), Peking University, China [Cui, Yaokui](#), Peking University, China [Luo, Zengliang](#), Peking University, China [Li, Jing](#), Beijing Normal University, China

WE1.R9.7: MAPPING VEGETATION AND SEASONAL THAW DEPTH IN CENTRAL ALASKA USING AIRBORNE HYPERSPECTRAL AND LIDAR DATA

[Zhang, Caiyun](#), Florida Atlantic University, United States [Douglas, Thomas](#), U.S. Army Cold Regions Research & Engineering Laboratory, United States [Anderson, John](#), U.S. Army Geospatial Research Laboratory, United States

WE1.R9.8: RETRIEVING SURFACE DEFORMATION OF THE QINGHAI-TIBET RAILWAY ACROSS PERMAFROST AREAS FROM INSAR

[Han, Jiangping](#), Tongji University, China [Lu, Ping](#), Tongji University, China

WE1.R9.9: DEVELOPMENT OF MICROWAVE EMISSION MODEL FOR FROZEN SOIL WITH CONSIDERING THE VOLUME SCATTERING EFFECT

[Wang, Jian](#), Beijing Normal University, China [Jiang, Lingmei](#), Beijing Normal University, China [Liu, Xiaojing](#), Beijing Normal University, China [Yang, Jianwei](#), Beijing Normal University, China

WE1.R9.10: REMOTE SENSING OF MOUNTAIN PERMAFROST LANDSCAPE BY MULTI-FUSION DATA MODELING. EXAMPLE OF VERKHOYANSK RIDGE (RUSSIA)

[Gadal, Sebastien](#), Aix-Marseille University, France [Zakharov, Moisei](#), Aix-Marseille University, France [Danilov, Yuri](#), North Eastern Federal University, Russia [Kamicaityte, Jurate](#), Kaunas University of Technology, Lithuania

WE1.R9.11: COMPREHENSIVE VERIFICATION AND ANALYSIS OF MULTI-SCALE REMOTE SENSING PRODUCTS FOR SURFACE FREEZING-THAWING STATUS ON THE QINGHAI-TIBET PLATEAU

[Kou, Xiaokang](#), Shijiazhuang Tiedao University, China [Jia, Zhaoyang](#), Shijiazhuang Tiedao University, China [Yan, Shuang](#), Hebei Academy of Sciences, China [Jin, Mengjie](#), Shijiazhuang Tiedao University, China [Zhang, Yuzhi](#), Shijiazhuang Tiedao University, China [Wang,](#)

[Tianliang](#), Shijiazhuang Tiedao University, China

[WE1.R9.12: DETECTING CHANGES OF RETROGRESSIVE THAW SLUMPS FROM SATELLITE IMAGES USING SIAMESE NEURAL NETWORK](#)

[Huang, Lingcao](#), Chinese University of Hong Kong, China [Liu, Lin](#), Chinese University of Hong Kong, China

WE1.R10 - Remote Sensing Wednesday, September 30, 05:00 - 07:00 • Room 10
for Forest and Vegetation
Classification, Growth, and Dynamics

[WE1.R10.1: COMBINING TANDEM-X, SENTINEL-2 AND FIELD DATA FOR PREDICTION OF SPECIES-WISE STEM VOLUMES](#)

[Persson, Henrik](#), Swedish University of Agricultural Sciences, Sweden [Fransson, Johan](#), Swedish University of Agricultural Sciences, Sweden [Jonzén, Jonas](#), Swedish University of Agricultural Sciences, Sweden [Nilsson, Mats](#), Swedish University of Agricultural Sciences, Sweden

[WE1.R10.2: A MULTI-SENSOR APPROACH TO SEPARATE PALM OIL PLANTATIONS FROM FOREST COVER USING NDFI AND A MODIFIED PAULI DECOMPOSITION TECHNIQUE](#)

[Muñoz, Erith](#), FAO, Ecuador [Zozaya, Alfonso](#), Universidad Tecnológica Metropolitana, Chile [Lindquist, Erik](#), FAO, Italy

[WE1.R10.3: INVESTIGATING THE LAGGED RELATIONSHIP BETWEEN SMAP SOIL MOISTURE AND LIVE FUEL MOISTURE IN CALIFORNIA, USA](#)

[Jia, Shenyue](#), Chapman University, United States [Kim, Seung Hee](#), Chapman University, United States [Nghiem, Son](#), NASA Jet Propulsion Laboratory, United States [Yang, Keun Hang](#), Chapman University, United States [Kafatos, Menas](#), Chapman University, United States

[WE1.R10.4: APPLICATION OF RANDOM FOREST CLASSIFICATION TO DETECT THE PINE WILT DISEASE FROM HIGH RESOLUTION SPECTRAL IMAGES](#)

[Iordache, Marian-Daniel](#), Flemish Institute for Technological Research, Belgium [Mantas, Vasco](#), University of Coimbra, Portugal [Baltazar, Elsa](#), University of Coimbra, Portugal [Lewycky, Nicolas](#), Flemish Institute for Technological Research, Belgium [Souverijns, Niels](#), Flemish Institute for Technological Research, Belgium

[WE1.R10.5: TESTING AND COMPARING THE APPLICABILITY OF SENTINEL-2 AND LANDSAT 8 REFLECTANCE DATA IN ESTIMATING MOUNTAINOUS HERBACEOUS BIOMASS BEFORE AND AFTER FIRE USING RANDOM FOREST MODELLING](#)

[Semela, Mmathapelo](#), University of Free State, South Africa [Ramoelo, Abel](#), South African National Parks, South Africa [Adelabu, Samuel](#), University of Free State, South Africa

[WE1.R10.6: EXTRACTION OF DEGRADED STREET TREES BY BLOCKED VEGETATION INDEX](#)

[Tokunaga, Mitsuharu](#), Kanazawa Institute of Technology, Japan

[WE1.R10.7: A MULTI-SCALE REMOTE SENSING APPROACH TO UNDERSTANDING VEGETATION DYNAMICS IN THE NAMA KAROO-GRASSLAND ECOTONE OF SOUTH AFRICA](#)

[Ndyamboti, Kuhle](#), University of Jena, Germany [du Toit, Justin](#), Grootfontein Agricultural Development Institute (GADI), South Africa [Baade, Jussi](#), University of Jena, Germany [Kaiser, Andreas](#), University of Jena, Germany [Urban, Marcel](#), University of Jena, Germany [Schmullius, Christiane](#), University of Jena, Germany [Thiel, Christian](#), DLR Institute for Data Science, Germany [Berger, Christian](#), University of Jena, Germany

[WE1.R10.8: GENERATING SPATIAL-TEMPORAL CONTINUOUS LAI TIME-SERIES FROM LANDSAT USING NEURAL NETWORK AND METEOROLOGICAL DATA](#)

[Zhu, Xinran](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Jing](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liu, Qinhua](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China

[WE1.R10.9: PREDICTING GROWING STOCK VOLUME OF BOREAL FORESTS USING](#)

VERY LONG TIME SERIES OF SENTINEL-1 DATA

[Ge, Shaojia](#), Nanjing University of Science and Technology, China [Tomppo, Erkki](#), Aalto University, Finland [Rauste, Yrjö](#), VTT Technical Research Centre of Finland, Finland [Su, Weimin](#), Nanjing University of Science and Technology, China [Gu, Hong](#), Nanjing University of Science and Technology, China [Praks, Jaan](#), Aalto University, Finland [Antropov, Oleg](#), VTT Technical Research Centre of Finland, Finland

WE1.R10.10: HOURLY GPP ESTIMATION IN AUSTRALIA USING HIMAWARI-8 AHI PRODUCTS

[Hashimoto, Hirofumi](#), ARC-CREST/NASA Ames Research Center, United States [Wang, Weile](#), ARC-CREST/NASA Ames Research Center, United States [Michaelis, Andrew](#), ARC-CREST/NASA Ames Research Center, United States [Takenaka, Hideaki](#), Japan Aerospace Exploration Agency, United States [Atsushi, Higuchi](#), Chiba University, Japan [Nemani, Ramakrishna](#), NASA Ames Research Center, United States

WE1.R10.11: EFFECTS OF TROPICAL FOREST DEGRADATION ON AMAZON FOREST PHENOLOGY

[Rangel Pinagé, Ekena](#), University of Technology Sydney, Australia [M. Bell, David](#), USDA Forest Service, United States [Gregory, Matthew](#), Oregon State University, United States [Nguyen Tran, Ngoc](#), Hanoi University of Science and Technology, Viet Nam [Zhang, Wenjie](#), Chinese Academy of Sciences, China [Huete, Alfredo](#), University of Technology Sydney, Australia

WE1.R11 - Remote Sensing for Crop Monitoring, Mapping and Classification II Wednesday, September 30, 05:00 - 07:00 • Room 11

WE1.R11.1: VEGETABLE PRODUCTION POTENTIAL IN OAHU, HAWAII WITH AN INTEGRATED USE OF SENTINEL-2 TIME SERIES AND GIS MODELING

[Miura, Tomoaki](#), University of Hawaii at Manoa, United States [Loke, Matthew](#), Hawaii Department of Agriculture, United States

WE1.R11.2: RICE MONITORING WITH TIME SERIES SAR BASED ON DEEP LEARNING MODEL

[Zhang, Hong](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS, China [Wei, Sisi](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS, China [Wang, Chao](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS, China [Sun, Chunling](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS, China [Xu, Lu](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, CAS, China

WE1.R11.3: UNDERSTANDING THE BACKSCATTERING FROM SENTINEL-1 OVER A GROWING SEASON OF CORN IN CENTRAL MEXICO USING THE THEXMEX DATASETS

[Constantino Recillas, Daniel Enrique](#), ESIME Zacatenco, Instituto Politécnico Nacional, Mexico [Arizmendi Vasconcelos, Eduardo](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Monsiváis Huertero, Alejandro](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Jiménez Escalona, José Carlos](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Torres Gómez, Aura Citlalli](#), Instituto de geografía y geomática Ing. Jorge L. Tamayo, Mexico [De La Rosa Montero, Iván Edmundo](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Hernández Sánchez, Juan Carlos](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Villalobos Martínez, Roberto Ivan](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Zempoaltecatl-Ramírez, Enrique](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Aparicio García, Ramón Sidonio](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Huerta Batiz, Héctor Ernesto](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Zambrano Gallardo, Cira Francisca](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Sánchez Villanueva, Carlos Rodolfo](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Arizmendi Vasconcelos, Leonardo](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Saúce Rangel, Víctor Manuel](#), ESIME Ticomán, Instituto Politécnico Nacional, Mexico [Judge, Jasmeet](#), University of Florida, United States

WE1.R11.4: ANALYSIS OF THE RELATION BETWEEN S-BAND BACKSCATTER AND RANKS DISTRIBUTION OF WHEAT

[He, Lei](#), Chengdu University of Information Technology, China [Zhang, Cunjie](#), Operational System Development and Maintenance Division, China [Li, Yuzhen](#), Chengdu Software Development Center, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China

[WE1.R11.5: A EUROPEAN TEST SITE FOR GROUND DATA MEASUREMENT AND EARTH OBSERVATION SERVICES VALIDATION](#)

[Rinaldi, Michele](#), Consiglio per la Ricerca in Agricoltura e l'Analisi Economica, Italy [Colecchia, Salvatore Antonio](#), Consiglio per la Ricerca in Agricoltura e l'Analisi Economica, Italy [Ruggieri, Sergio](#), Consiglio per la Ricerca in Agricoltura e l'Analisi Economica, Italy [Balenzano, Anna](#), Consiglio Nazionale delle Ricerche, Italy [Mattia, Francesco](#), Consiglio Nazionale delle Ricerche, Italy [Satalino, Giuseppe](#), Consiglio Nazionale delle Ricerche, Italy

[WE1.R11.6: MONITORING AND ANALYSIS OF VIIRS FIRE EVENTS DATA OVER INDIAN STATES OF PUNJAB AND HARYANA](#)

[Singh, Dineshkumar](#), Tata Consultancy Services, India [Mohite, Jayantrao](#), Tata Consultancy Services, India [Sawant, Suryakant](#), Tata Consultancy Services, India [Pappula, Srinivasu](#), Tata Consultancy Services, India

[WE1.R11.7: COMBINED USE OF SENTINEL-1, SENTINEL-2 AND LANDSAT 7 & 8 DATA FOR ESTIMATING HEADING DATE OF RICE WITH DIFFERENT CULM LENGTHS](#)

[Wakamori, Koji](#), VisionTech Inc., Japan [Ichikawa, Dorj](#), Yamaguchi University Graduate School of Frontier Sciences, Japan

[WE1.R11.8: OBSERVATION OF CROP GROWTH CONDITION IN DIFFERENT REGIONS OF UZBEKISTAN](#)

[Ichikawa, Dorj](#), Yamaguchi University, Japan [Nagai, Masahiko](#), Yamaguchi University, Japan [Imaki, Kazuya](#), Japan Manned Space Systems Corporation, Japan [Saytov, Kadambay](#), Tashkent State Technical University, Uzbekistan [Abdujabarov, Nuriddin](#), Tashkent State Technical University, Uzbekistan [Ikeda, Takashi](#), Cabinet Office, The Government of Japan, Japan

[WE1.R11.9: MONITORING OF OLIVE TREES TEMPERATURES UNDER DIFFERENT IRRIGATION STRATEGIES BY UAV THERMAL INFRARED IMAGERY](#)

[Marques, Pedro](#), University of Trás-os-Montes e Alto Douro, Portugal [Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Brito, Thyago](#), University of Trás-os-Montes e Alto Douro, Portugal [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal [Fernandes-Silva, Anabela](#), University of Trás-os-Montes e Alto Douro, Portugal

[WE1.R11.10: AGRICULTURAL FIELDS MONITORING WITH MULTI-TEMPORAL POLARIMETRIC SAR \(MT-POLSAR\) CHANGE DETECTION](#)

[Silva-Perez, Cristian](#), University of Stirling, United Kingdom [Marino, Armando](#), University of Stirling, United Kingdom [Lopez-Sanchez, Juan M.](#), University of Alicante, Spain [Cameron, Jain](#), Environment systems LTD, United Kingdom

[WE1.R11.11: ASSESSING THE DIRECTIONAL EFFECTS OF REMOTELY SENSED LAND SURFACE TEMPERATURE ON EVAPOTRANSPIRATION ESTIMATION](#)

[Jiang, Yazhen](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Tang, Ronglin](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Jiang, Xiaoguang](#), University of Chinese Academy of Sciences, China

WE1.R12 - SAR Instruments Wednesday, September 30, 05:00 - 07:00 • Room 12 and Calibration

[WE1.R12.1: A KA-BAND ALONG TRACK INTERFEROMETRY AND GROUND MOVING TARGET IDENTIFICATION ARCHITECTURE BASED ON REFLECTARRAY ANTENNAS](#)

[Schobert, Dennis](#), European Space Agency (ESA-ESTEC), Netherlands [Ludwig, Michael](#), European Space Agency (ESA-ESTEC), Netherlands [Marote, David](#), Airbus Defence and Space SAU, Spain [Zhou, Min](#), TICRA, Denmark [Notter, Michael](#), Airbus Defence and Space Ltd, United Kingdom

[WE1.R12.2: PERFORMANCE OF SWESARR'S MULTI-FREQUENCY DUAL-POLARIMETRY SYNTHETIC APERTURE RADAR DURING NASA'S SNOWEX AIRBORNE CAMPAIGN](#)

[Rincon, Rafael](#), NASA, United States [Osmanoglu, Batuhan](#), NASA, United States [Racette, Paul](#), NASA, United States [Perrine, Martin](#), NASA, United States [Brucker, Ludovic](#), NASA, United States [Seufert, Steve](#), NASA, United States [Kielbasa, Chase](#), NASA, United States [Warren, Adam](#), NASA, United States

WE1.R12.3: INITIAL NOVASAR-1 DATA PROCESSING AND IMAGERY EVALUATION

[Zhou, Zheng-Shu](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Parker, Amy](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Brindle, Laura](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Rosengvist, Ake](#), solo Earth Observation (soloEO), Japan [Caccetta, Peter](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Held, Alex](#), Commonwealth Scientific and Industrial Research Organisation, Australia

WE1.R12.4: RECALIBRATING SENTINEL-1 ADDITIVE NOISE-GAIN WITH LINEAR PROGRAMMING

[Lee, Peter](#), University of Waterloo, Canada [Xu, Linlin](#), University of Waterloo, Canada [Clausi, David](#), University of Waterloo, Canada

WE1.R12.5: RESIDUAL MOTION ESTIMATION FOR MULTI-SQUINT AIRBORNE SAR

[Hawkins, Brian](#), NASA Jet Propulsion Laboratory, United States [Michel, Thierry](#), NASA Jet Propulsion Laboratory, United States [Hensley, Scott](#), NASA Jet Propulsion Laboratory, United States

WE1.R12.6: MULTI-PLATFORM, MULTI-FREQUENCY SAR CAMPAIGN WITH THE F-SAR AND MIRANDA35 SENSORS

[Henke, Daniel](#), University of Zurich, Switzerland [Mendez Dominguez, Elias](#), University of Zurich, Switzerland [Fagir, Julian](#), University of Zurich, Switzerland [Fritsche, Liv](#), University of Zurich, Switzerland [Horn, Ralf](#), German Aerospace Center (DLR), Germany [Scheiber, Rolf](#), German Aerospace Center (DLR), Germany [Reigber, Andreas](#), German Aerospace Center (DLR), Germany [Sieger, Stefan](#), Fraunhofer Institute, Germany [Janssen, Daniel](#), Fraunhofer Institute, Germany [Klöppel, Frank](#), Fraunhofer Institute, Germany [Caris, Michael](#), Fraunhofer Institute, Germany [Stanko, Stephan](#), Fraunhofer Institute, Germany [Renker, Matthias](#), armasuisse, Switzerland [Wellig, Peter](#), armasuisse, Switzerland

WE1.R12.7: DEVELOPMENT AND RESULTS FOR A NEW SOFTWARE DEFINED RADAR: THE SLIMSDR

[Zaugg, Evan](#), ARTEMIS, Inc., United States [Margulis, Alexander](#), ARTEMIS, Inc., United States [Margulis, Maximillian](#), ARTEMIS, Inc., United States [Bradley, Joshua](#), ARTEMIS, Inc., United States [Kozak, Alexander](#), ARTEMIS, Inc., United States [Budge, Jeffrey](#), ARTEMIS, Inc., United States

WE1.R12.8: AIRBORNE UWB RADAR ON A LIGHT SPORT AIRCRAFT FOR POLAR SURVEYS

[O'Neill, Charles](#), University of Alabama, United States [Gogineni, Prasad](#), University of Alabama, United States [Yan, Jie-Bang](#), University of Alabama, United States [Taylor, Drew](#), University of Alabama, United States [Hong, Yang-Ki](#), University of Alabama, United States

WE1.R12.9: PASSIVE RADAR INVESTIGATIONS OF EUROPA'S IONOSPHERE: A LOW-RESOURCE APPROACH FOR VHF DISPERSION CORRECTIONS AND IONOSPHERIC TOMOGRAPHY

[Peters, Sean](#), Stanford University, United States [Schroeder, Dustin](#), Stanford University, United States [Romero-Wolf, Andrew](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

WE1.R13 - Recent Advances Wednesday, September 30, 05:00 - 07:00 • Room 13
in GNSS-Reflectometry:
Calibration, Coherent/Incoherent Scattering, and Land Applications

WE1.R13.1: GLOBAL SOIL MOISTURE ESTIMATION USING CYGNSS DATA

[Yan, Qingyun](#), Nanjing University of Information Science and Technology, China [Jin, Shuanggen](#), Nanjing University of Information Science and Technology, China [Huang, Weimin](#), Memorial University of Newfoundland, Canada [Jia, Yan](#), Nanjing University of Posts and Telecommunications, Canada

WE1.R13.2: ASSESSMENT OF CYGNSS CHARACTERIZATION OF TROPICAL CYCLONES USING MATCHED FILTER BASED RETRIEVALS

[Al-Khalidi, Mohammad](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Katzberg, Steven](#), NASA Langley Research Center; South Carolina State University, United States [Kang, Younghun](#), The Ohio State University, United States [Kubatko, Ethan](#), The Ohio State University, United States

WE1.R13.3: CHARACTERIZATION AND IMPACT ANALYSIS OF RADIO FREQUENCY INTERFERENCE FOR GNSS REFLECTOMETRY

[Wang, Pai](#), University of Colorado Boulder, United States [Wang, Yang](#), University of Colorado Boulder, United States [Morton, Y. Jade](#), University of Colorado Boulder, United States

WE1.R13.4: A TOPOGRAPHICALLY-ACCURATE GNSS-R REFLECTION POINT PREDICTOR FOR ON-BOARD OPERATIONAL PROCESSING

[King, Lucinda](#), University of Surrey, United Kingdom [Unwin, Martin](#), Surrey Satellite Technology Ltd., United Kingdom [Rawlinson, Jonathan](#), Surrey Satellite Technology Ltd., United Kingdom [Guida, Raffaella](#), University of Surrey, United Kingdom [Underwood, Craig](#), University of Surrey, United Kingdom

WE1.R13.5: LAND AND OCEAN COHERENCE DETECTION USING THE CYCLONE GLOBAL NAVIGATION SATELLITE SYSTEM (CYGNSS) MISSION LEVEL-1 DELAY-DOPPLER MAPS

[Al-Khalidi, Mohammad](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Gleason, Scott](#), University Corporation for Atmospheric Research, United States [Loria, Eric](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States [Yi, Yuchan](#), School of Earth Sciences, United States

WE1.R13.6: INVESTIGATING THE IMPACT OF COHERENT AND INCOHERENT SCATTERING TERMS IN GNSS-R DELAY DOPPLER MAPS

[Carreno-Luengo, Hugo](#), University of Michigan (UM), United States [Ruf, Chris](#), University of Michigan (UM), United States [Warnock, April](#), SRI International, United States [Brunner, Kelsey](#), SRI International, United States

WE1.R13.7: GPS SIGNAL LAND REFLECTION COHERENCE DEPENDENCE ON WATER EXTENT AND SURFACE TOPOGRAPHY USING CYGNSS MEASUREMENTS

[Collett, Ian](#), University of Colorado Boulder, United States [Wang, Yang](#), University of Colorado Boulder, United States [Shah, Rashmi](#), NASA Jet Propulsion Laboratory, United States [Roesler, Carolyn](#), University of Colorado Boulder, United States [Morton, Y. Jade](#), University of Colorado Boulder, United States

WE1.R13.8: DETECTION OF COHERENT GNSS-R MEASUREMENTS USING A SUPPORT VECTOR MACHINE

[Wang, Yang](#), University of Colorado Boulder, United States [Liu, Yunxiang](#), University of Colorado Boulder, United States [Roesler, Carolyn](#), University of Colorado Boulder, United States [Morton, Jade](#), University of Colorado Boulder, United States

WE1.R13.9: WAVE COHERENCE IN GNSS REFLECTOMETRY: A SIGNAL PROCESSING POINT OF VIEW

[Russo, Ilaria Mara](#), Università degli Studi del Sannio, Italy [di Bisceglie, Maurizio](#), Università degli Studi del Sannio, Italy [Galdi, Carmela](#), Università degli Studi del Sannio, Italy [Lavalle, Marco](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Zuffada, Cinzia](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

WE1.R13.10: COHERENT GPS REFLECTIONS OVER OCEAN SURFACE

[Roesler, Carolyn](#), University of Colorado Boulder, United States [Wang, Yang](#), University of Colorado Boulder, United States [Morton, Jade](#), University of Colorado Boulder, United States [Nerem, Steve](#), University of Colorado Boulder, United States

WE1.R14 - Data Management Wednesday, September 30, 05:00 - 07:00 • Room 14 and Systems I

WE1.R14.1: BIG DATA STANDARDS AND ANALYSIS-READINESS: STATUS AND

EVOLUTION

[Baumann, Peter](#), Jacobs University | rasdaman GmbH, Germany

[WE1.R14.2: ADVANCING OPEN SCIENCE THROUGH INNOVATIVE DATA SYSTEM SOLUTIONS: THE JOINT ESA-NASA MULTI-MISSION ALGORITHM AND ANALYSIS PLATFORM \(MAAP\)'S DATA ECOSYSTEM](#)

[Bugbee, Kaylin](#), University of Alabama in Huntsville, United States [Ramachandran, Rahul](#), NASA Marshall Space Flight Center, United States [Maskey, Manil](#), NASA Marshall Space Flight Center, United States [Barciauskas, Aimee](#), Development Seed, United States [Kaulfus, Aaron](#), University of Alabama in Huntsville, United States [Ton That, Dai-Hai](#), University of Alabama in Huntsville, United States [Virts, Katrina](#), University of Alabama in Huntsville, United States [Markert, Kel](#), University of Alabama in Huntsville, United States [Lynnes, Chris](#), NASA Goddard Space Flight Center, United States

[WE1.R14.3: A MACHINE LEARNING APPROACH FOR DATA QUALITY CONTROL OF EARTH OBSERVATION DATA MANAGEMENT SYSTEM](#)

[Han, Weiguo](#), University Corporation for Atmospheric Research, United States [Jochum, Matthew](#), National Oceanic and Atmospheric Administration, United States

[WE1.R14.4: CANDELA: A CLOUD PLATFORM FOR COPERNICUS EARTH OBSERVATION DATA ANALYTICS](#)

[Rolland, Jean-François](#), ATOS, France [Castel, Fabien](#), ATOS, France [Haugommard, Anne](#), ATOS, France [Aubrun, Michelle](#), Thales Alenia Space, France [Yao, Wei](#), German Aerospace Center DLR, Germany [Dumitru, Corneliu Octavian](#), German Aerospace Center DLR, Germany [Datcu, Mihai](#), German Aerospace Center DLR, Germany [Bylicki, Michal](#), CloudFerro, Poland [Tran, Ba-Huy](#), IRIT, France [Aussenac-Gillies, Nathalie](#), IRIT, France [Comparot, Catherine](#), IRIT, France [Trojahn, Cassia](#), IRIT, France

[WE1.R14.5: SAR METADATA STANDARDS: SINGLE-LOOK COMPLEX DATA](#)

[Pierce, Leland](#), University of Michigan, United States

[WE1.R14.6: A MANAGEMENT SYSTEM FOR FORESTRY REMOTE SENSING IMAGES BASED ON THE GLOBAL SUBDIVISION MODEL](#)

[Zhai, Weixin](#), Peking University, China [Yu, Jiajie](#), China Academy of Railway Sciences, China [Zhu, Daoye](#), Peking University, China [Han, Bing](#), Peking University, China [Miao, Shuangxi](#), Peking University, China [Cheng, Chengqi](#), Peking University, China [Xie, Peng](#), Xi'an Research Institute of Surveying and Mapping, China

[WE1.R14.7: AN APPROACH FOR INTEGRATING EARTH OBSERVATION, CHANGE DETECTION AND CONTEXTUAL DATA FOR SEMANTIC SEARCH](#)

[Tran, Ba-Huy](#), IRIT, France [Aussenac-Gilles, Nathalie](#), IRIT, France [Comparot, Catherine](#), IRIT, France [Trojahn, Cassia](#), IRIT, France

[WE1.R14.8: DEEP NEURAL NETWORK-BASED DATA RECONSTRUCTION FOR LANDSLIDE DETECTION](#)

[Utomo, Darmawan](#), Satya Wacana Christian University, Indonesia [Hu, Liang-Cheng](#), National Chung Cheng University, Taiwan [Hsiung, Pao-Ann](#), National Chung Cheng University, Taiwan

[WE1.R14.9: DEVELOPMENT OF GEOSPATIAL PROCESSING FRAMEWORKS FOR SENTINEL-1, -2 SATELLITE DATA](#)

[Pandit, Ankur](#), TCS Innovation Labs, India [Sawant, Suryakant](#), TCS Innovation Labs, India [Mohite, Jayantrao](#), TCS Innovation Labs, India [Pappula, Srinivasu](#), TCS Innovation Labs, India

[WE1.R14.10: GEOCUBE: TOWARDS THE MULTI-SOURCE GEOSPATIAL DATA CUBE IN BIG DATA ERA](#)

[Yue, Peng](#), Wuhan University, China [Shangguan, Boyi](#), Wuhan University, China [Zhang, Mingda](#), Wuhan University, China [Gao, Fan](#), Wuhan University, China [Cao, Zhipeng](#), Wuhan University, China [Jiang, Liangcun](#), Wuhan University, China [Fang, Zhe](#), Wuhan University, China

[WE1.R14.11: STANDARDIZED ALGORITHM DOCUMENTATION FOR IMPROVED SCIENTIFIC DATA UNDERSTANDING: THE ALGORITHM PUBLICATION TOOL PROTOTYPE](#)

[Bugbee, Kaylin](#), University of Alabama in Huntsville, United States [Kaulfus, Aaron](#), University of Alabama in Huntsville, United States [Harris, Alyssa](#), Development Seed, United States

[Bailey, Sean](#), NASA Goddard Space Flight Center, United States [Ramachandran, Rahul](#), NASA Marshall Space Flight Center, United States [Harkins, Sean](#), Development Seed, United States [Barciauskas, Aimee](#), Development Seed, United States [Smith, Deborah](#), University of Alabama in Huntsville, United States

WE1.R15 - Passive Optical, Hyperspectral Sensors and Calibration II

Wednesday, September 30, 05:00 - 07:00 • Room 15

[WE1.R15.1: INFLIGHT RADIOMETRIC CALIBRATION FOR A MULTI-BAND SENSOR ONBOARD RISESAT WITH THE MOON](#)

[Imai, Masataka](#), National Institute of Advanced Industrial Science and Technology (AIST), Japan [Kouyama, Toru](#), National Institute of Advanced Industrial Science and Technology (AIST), Japan [Kurihara, Junichi](#), Hokkaido University, Japan [Kuwahara, Toshinori](#), Tohoku University, Japan [Fujita, Shinya](#), Tohoku University, Japan [Sakamoto, Yuji](#), Tohoku University, Japan [Saitoh, Sei-Ichi](#), Hokkaido University, Japan [Hirata, Takafumi](#), Hokkaido University, Japan [Takahashi, Yukihiro](#), Hokkaido University, Japan

[WE1.R15.2: RECONSTRUCTING MODIS LST PRODUCTS OVER TIBETAN PLATEAU BASED ON RANDOM FOREST](#)

[Cheng, Yuan](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Wu, Huanping](#), China Meteorological Administration, China [Li, Fan](#), University of Electronic Science and Technology of China, China [He, Lei](#), Chengdu University of Information Technology, China [Li, Yuzhen](#), ChengDu Software Industry Development Center, China

[WE1.R15.3: ONBOARD DATA REDUCTION FOR MULTISPECTRAL AND HYPERSPECTRAL IMAGES VIA CLOUD SCREENING](#)

[Cilia, Martina](#), Politecnico di Torino, Italy [Prette, Nicola](#), Politecnico di Torino, Italy [Magli, Enrico](#), Politecnico di Torino, Italy [Sang, Bernhard](#), OHB System AG, Germany [Pieraccini, Stefano](#), OHB System AG, Germany

[WE1.R15.4: A CALIBRATION AND VALIDATION TOOL FOR DATA QUALITY ANALYSIS OF AIRBORNE IMAGING SPECTROSCOPY DATA](#)

[Meiller, Carmen](#), University of Zurich, Switzerland [Kuehnle, Helena](#), University of Zurich, Switzerland [Werfeli, Mike](#), University of Zurich, Switzerland [Hueni, Andreas](#), University of Zurich, Switzerland

[WE1.R15.5: CORRECTION OF CAMERA INTERIOR ORIENTATION ELEMENTS BASED ON MULTI-FRAME STAR MAP](#)

[Guan, Zhichao](#), Wuhan University, China [Zhang, Guo](#), Wuhan University, China [Ge, Linlin](#), University of New South Wales, Australia

[WE1.R15.6: CROSSTALK EFFECT IN NOAA 20 VIIRS THERMAL EMISSIVE BANDS](#)

[Sun, Junqiang](#), Science and System Applications, Inc., United States [Xiong, Xiaoxiong](#), NASA, United States

[WE1.R15.7: PRELIMINARY JPSS-3 VIIRS POLARIZATION SENSITIVITY AND COMPARISON WITH S-NPP, JPSS-1 AND -2](#)

[Moyer, David](#), The Aerospace Corporation, United States [McIntire, Jeff](#), Science Systems and Applications, Inc., United States [Xiong, Xiaoxiong](#), NASA, United States [Thome, Kurtis](#), NASA, United States

[WE1.R15.8: BIDIRECTIONAL SPECTRAL REFLECTANCE FACTOR OF BAOTOU SANDY CALIBRATION SITE AND ITS APPLICATION IN VICARIOUS RADIOMETRIC CALIBRATION](#)

[Zhao, Yongguang](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Ma, Lingling](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Liu, Yaokai](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Qian, Yonggang](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Li, Kun](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Wang, Ning](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Gao, Caixia](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Zhu, Xiaohua](#), Academy of Opto-Electronics, Chinese Academy of Sciences, China [Li, Wan](#), Academy of Opto-Electronics, Chinese Academy of Sciences,

China

[WE1.R15.9: ANALYSIS OF RADIANCE ERROR CAUSED BY THE CHANNEL CENTER WAVELENGTH SHIFT OF IMAGING SPECTROMETER](#)

[Zhang, Yaqiong](#), Center for Satellite Application on Ecology and Environment, Ministry of Ecology and Environment, China [Zhang, Wenjuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Chen, Zhengchao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Hao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

[WE1.R15.10: LIFETIME PERFORMANCE ASSESSMENT OF SNPP OMPS NADIR MAPPER SDR DATA USING SIMULTANEOUS NADIR OVERPASS COLLOCATED OBSERVATIONS WITH GOME-2](#)

[Liang, Ding](#), Global Science and Technology, United States [Yan, Banghua](#), NOAA/STAR/SMCD, United States [Sun, Ninghai](#), Global Science and Technology, United States [Flynn, Lawrence](#), NOAA/STAR, United States [Pan, Chunhui](#), UMD, United States [Beck, Trevor](#), NOAA/STAR, United States

[WE1.R15.11: AN EARTH SCIENCE IMAGING SPECTROSCOPY MISSION: THE EARTH SURFACE MINERAL DUST SOURCE INVESTIGATION \(EMIT\)](#)

[Green, Robert](#), NASA Jet Propulsion Laboratory, United States [Thompson, David](#), NASA Jet Propulsion Laboratory, United States

WE1.R16 - Processing and Imaging Techniques II Wednesday, September 30, 05:00 - 07:00 • Room 16

[WE1.R16.1: A NOVEL AZIMUTH DISCRETE PERIODIC PHASE CODING METHOD FOR MIMO SAR](#)

[Li, Kun](#), Beijing Institute of Spacecraft System Engineering, China [Wang, Jie](#), Nanjing University of Information Science and Technology, China [Chen, Longyong](#), Institute of Electronics, Chinese Academy of Sciences, China [Ni, Wenjian](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Lv, Zheng](#), Beijing Institute of Spacecraft System Engineering, China [Liu, Lei](#), Beijing Institute of Spacecraft System Engineering, China [Xu, Mingming](#), Beijing Institute of Spacecraft System Engineering, China [Du, Jianbo](#), Beijing Institute of Spacecraft System Engineering, China [Wang, Zhibin](#), Beijing Institute of Spacecraft System Engineering, China [Liu, Jie](#), Beijing Institute of Spacecraft System Engineering, China [Zhang, Qingjun](#), Beijing Institute of Spacecraft System Engineering, China

[WE1.R16.2: AN EFFICIENT WATER SEGMENTATION METHOD FOR SAR IMAGES](#)

[Dai, Muchen](#), National University of Defense Technology, China [Leng, Xiangguang](#), National University of Defense Technology, China [Xiong, Boli](#), National University of Defense Technology, China [Ji, Kefeng](#), National University of Defense Technology, China

[WE1.R16.3: CURRENT DIRECTION RETRIEVAL ON THE GULF STREAM SURFACE LAYER](#)

[Yang, Xiaobo](#), Nanjing University of Information Science and Technology, China [He, Yijun](#), Nanjing University of Information Science and Technology, China

[WE1.R16.4: A NOVEL ISAR IMAGING ALGORITHM FOR NONUNIFORMLY ROTATING TARGET](#)

[Bai, Xia](#), Beijing Institute of Technology, China [Feng, Yi](#), Beijing Institute of Technology, China [Zhao, Juan](#), Beijing Institute of Technology, China

[WE1.R16.5: CHALLENGES AND OPPORTUNITIES FOR STAGGERED SAR WITH LOW OVERSAMPLING FACTORS](#)

[Zhou, Zi-Xuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Deng, Yunkai](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Wei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Robert](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zou, Hang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liang, Da](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE1.R16.6: EXPEDITING PHASE GRADIENT AUTOFOCUS ALGORITHM FOR SAR IMAGING

[Zhang, Tinghao](#), Xidian University, China [Li, Yachao](#), Xidian University, China [Zhang, Tao](#), Xidian University, China [Gu, Tong](#), Xidian University, China

WE1.R16.7: A SAR IMAGING METHOD BASED ON LP AND TV COMPOSITE NORM REGULARIZATION

[Wang, Shuang](#), Beihang University, China [Xu, Huaping](#), Beihang University, China [Zhang, Jiawei](#), Beihang University, China

WE1.R16.8: SAR IMAGE REGISTRATION BASED ON OPTIMIZED RANSAC ALGORITHM WITH MIXED FEATURE EXTRACTION

[Liao, Furong](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Chen, Yan](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Chen, Yunping](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Center for Resources Satellite Data and Application, China

WE1.R16.9: SUPPRESSION OF ADDITIONAL AZIMUTH AMBIGUITIES UNDER MULTI-CHANNEL AND MULTI-WAVEFORM SAR

[Natsuaki, Ryo](#), University of Tokyo, Japan [Prats-Iraola, Pau](#), German Aerospace Center, Germany

WE1.R16.10: ISAR IMAGING OF SPACE STATION BASED ON EPHEMERIS DATA ERROR COMPENSATION

[Gao, Anqi](#), Beihang University, China [Li, Jingwen](#), Beihang University, China [Sun, Bing](#), Beihang University, China [Guo, Yukun](#), Beihang University, China

WE1.R16.11: FIRST EXPERIENCES WITH ACTIVE C-BAND RADAR REFLECTORS AND SENTINEL-1

[Gisinger, Christoph](#), German Aerospace Center (DLR), Germany [Eineder, Michael](#), German Aerospace Center (DLR), Germany [Brcic, Ramon](#), German Aerospace Center (DLR), Germany [Balss, Ulrich](#), German Aerospace Center (DLR), Germany [Gruber, Thomas](#), Technical University of Munich (TUM), Germany [Oikonomidou, Xanthi](#), Technical University of Munich (TUM), Germany [Heinze, Markus](#), Technical University of Munich (TUM), Germany

WE1.R16.12: THE EFFECTS OF NOISE, SPARSITY AND PHASE ON PSEUDO-RANDOM TIME-SPACE MODULATION SAR PERFORMANCE

[Liu, Ying](#), Beihang University, China [Yu, Ze](#), Beihang University, China [Chen, Wenjiao](#), Beihang University, China [Yu, Jindong](#), Beihang University, China [Geng, Jiwen](#), Beihang University, China

WE1.R17 - Detection and Classification in Urban Environment

Wednesday, September 30, 05:00 - 07:00 • Room 17

WE1.R17.1: VEHICLE DETECTION WITH BOTTOM ENHANCED RETINANET IN AERIAL IMAGES

[Gao, Peng](#), Huazhong University of Science and Technology, China [Tian, Jinwen](#), Huazhong University of Science and Technology, China [Tai, Yuan](#), Huazhong University of Science and Technology, China [Zhao, Tianming](#), Huazhong University of Science and Technology, China [Gao, Qian](#), Huazhong University of Science and Technology, China

WE1.R17.2: RESEARCH ON VEHICLE DETECTION BASED ON FASTER R-CNN FOR UAV IMAGES

[Wang, Meng](#), School of ResoUniversity of Electronic Science and Technology of China, China [Luo, Xin](#), School of ResoUniversity of Electronic Science and Technology of China, China [Wang, Xiao](#), School of ResoUniversity of Electronic Science and Technology of China, China [Tian, Xiaoyue](#), School of ResoUniversity of Electronic Science and Technology of China, China

WE1.R17.3: DETECTION UNDERGROUND STRUCTURES IN CYPRUS USING LANDSAT-8 BANDS

[Melillos, George](#), Cyprus University of Technology, Cyprus [G. Hadjimitsis, Diofantos](#), Cyprus

University of Technology, Cyprus

WE1.R17.4: BUILDING RECOGNITION OF UAV REMOTE SENSING IMAGES BY DEEP LEARNING

[Zheng, Lijuan](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Ai, Ping](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Wu, Yu](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE1.R17.5: BUILDING DETECTION VIA A TWO-STREAM FPN NETWORK FROM PANCHROMATIC AND MULTI-SPECTRAL IMAGES

[Zhou, Feipeng](#), State Key Laboratory of Virtual Reality Technology and Systems, Beihang University, China [Liu, Qingjie](#), State Key Laboratory of Virtual Reality Technology and Systems, Beihang University, China [Wang, Yunhong](#), State Key Laboratory of Virtual Reality Technology and Systems, Beihang University, China [Xu, Tao](#), Jinan University, China [Wen, Qi](#), National Disaster Reduction Center of China, China

WE1.R17.6: CLASSIFICATION OF BUILDING STRUCTURE TYPES USING UAV OPTICAL IMAGES

[Wu, Haolin](#), Institute of Geology, China Earthquake Administration, China [Nie, Gaozhong](#), Institute of Geology, China Earthquake Administration, China [Fan, Xiwei](#), Institute of Geology, China Earthquake Administration, China

WE1.R17.7: URBAN SCENES CHANGE DETECTION BASED ON MULTI-SCALE IRREGULAR BAG OF VISUAL FEATURES FOR HIGH SPATIAL RESOLUTION IMAGERY

[Chen, Jiale](#), China University of Geosciences, China [Zhu, Qiqi](#), China University of Geosciences, China [Zhong, Yanfei](#), Wuhan University, China [Guan, Qingfeng](#), China University of Geosciences, China [Zhang, Liangpei](#), Wuhan University, China [Li, Deren](#), Wuhan University, China

WE1.R17.8: INCORPORATING MULTI-SOURCE REMOTE SENSING IN THE DETECTION OF EARTHQUAKE-DAMAGED BUILDINGS BASED ON LOGISTIC REGRESSION MODELLING

[Li, Qiang](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Gong, Lixia](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Jiang, Hongbo](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Jiao, Qisong](#), Institute of Crustal Dynamics, China Earthquake Administration, China

WE1.R17.9: STREET VIEW IMAGE RETRIEVAL WITH AVERAGE POOLING FEATURES

[Chu, Tianyou](#), Wuhan University, China [Chen, Yumin](#), Wuhan University, China [Huang, Liheng](#), Wuhan University, China [Tan, Huangyuan](#), Wuhan University, China [Cao, Jiping](#), Wuhan University, China [Xu, Zhiqiang](#), Wuhan University, China

WE1.R17.10: AN APPROACH FOR FAULT DETECTION IN METALLIC STRUCTURES USING MILLIMETER WAVE IMAGING

[Bivalkar, Mandar](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

WE1.R17.11: AIRPORT DETECTION BASED ON SALIENCY ANALYSIS AND GEOMETRIC FEATURE DETECTION FOR REMOTE SENSING IMAGES

[Zhu, Wanning](#), Beijing Normal University, China [Zhang, Qijian](#), Beijing Normal University, China [Zhang, Libao](#), Beijing Normal University, China

WE1.R17.12: IDENTIFYING SETTLEMENTS USING SVM AND U-NET

[Mutreja, Guneet](#), ESRI, India [Kumar, Sandeep](#), ESRI, India [Jha, Divyansh](#), ESRI, India [Singh, Abhra](#), Jamia Millia Islamia, India [Singh, Rohit](#), ESRI, India

WE1.R18 - Vessels Detection Wednesday, September 30, 05:00 - 07:00 • Room 18 using Remote Sensing Data

WE1.R18.1: SHIPDENET-18: AN ONLY 1 MB WITH ONLY 18 CONVOLUTION LAYERS LIGHT-WEIGHT DEEP LEARNING NETWORK FOR SAR SHIP DETECTION

[Zhang, Tianwen](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic

Science and Technology of China, China

WE1.R18.2: AN INTEGRATED METHOD OF SHIP DETECTION AND RECOGNITION IN SAR IMAGES BASED ON DEEP LEARNING

[Hou, Zesheng](#), University of Electronic Science and Technology of China, China [Cui, Zongyong](#), University of Electronic Science and Technology of China, China [Cao, Zongjie](#), University of Electronic Science and Technology of China, China [Liu, Nengyuan](#), University of Electronic Science and Technology of China, China

WE1.R18.3: SHIP DETECTION IN RADAR IMAGE SERIES BASED ON THE LONG SHORT-TERM MEMORY NETWORK

[Xu, Yi](#), Beihang University, China [Sun, Bing](#), Beihang University, China [Li, Chunsheng](#), Beihang University, China [Chen, Jie](#), Beihang University, China

WE1.R18.4: SHIP WAKE COMPONENT DETECTABILITY ON SYNTHETIC APERTURE RADAR (SAR)

[Tings, Björn](#), German Aerospace Center, Germany [Wiehle, Stefan](#), German Aerospace Center, Germany [Jacobsen, Sven](#), German Aerospace Center, Germany

WE1.R18.5: FAST SINGLE-SHOT SHIP INSTANCE SEGMENTATION BASED ON POLAR TEMPLATE MASK IN REMOTE SENSING IMAGES

[Huang, Zhenhang](#), Beijing University of Chemical Technology, China [Sun, Shihao](#), Beijing University of Chemical Technology, China [Li, Ruirui](#), Beijing University of Chemical Technology, China

WE1.R18.6: RECOGNITION OF SHIP BY ISAR WITH IMPROVED PARTIAL-MODAL GENERATIVE ADVERSARIAL NETWORKS

[Li, Gaopeng](#), Harbin Institute of Technology, China [Wang, Jie](#), Harbin Institute of Technology, China [Zhang, Yun](#), Harbin Institute of Technology, China

WE1.R18.7: DENSE DOCKED SHIP DETECTION VIA SPATIAL GROUP-WISE ENHANCE ATTENTION IN SAR IMAGES

[Wang, Xiaoya](#), University of Electronic Science and Technology of China, China [Cui, Zongyong](#), University of Electronic Science and Technology of China, China [Cao, Zongjie](#), University of Electronic Science and Technology of China, China [Dang, Sihang](#), University of Electronic Science and Technology of China, China

WE1.R18.8: SHIP TARGET SIGNATURE INDICATION BASED ON COMPLEX SIGNAL KURTOSIS IN SAR IMAGES

[Leng, Xiangguang](#), National University of Defense Technology, China [Ji, Kefeng](#), National University of Defense Technology, China [Xiong, Boli](#), National University of Defense Technology, China [Kuang, Gangyao](#), National University of Defense Technology, China

WE1.R18.9: A SVA BASED SIDELobe SUPPRESSION METHOD FOR SEA-LAND SEGMENTATION AND SHIP DETECTION IN SAR IMAGES

[Huang, Yinli](#), Xidian University, China [Sun, Lu](#), 93128 Troops of the Chinese peoples's liberation army, China [Guo, Liang](#), Xidian University, China [Sun, Guangcai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Yang, Jun](#), Xi'an University of Science and Technology, China [Hu, Yihua](#), National University of Defense Technology, China

WE1.R18.10: SHIP DETECTION FROM POLSAR IMAGERY BASED ON THE SCATTERING DIFFERENCE PARAMETER

[Zhang, Tao](#), Tsinghua University, China [Yang, Zhen](#), Jiangxi Science and Technology Normal University, China [Xing, Cheng](#), Tsinghua University, China [Zeng, Liang](#), Tsinghua University, China [Yin, Junjun](#), University of Science and Technology Beijing, China [Yang, Jian](#), Tsinghua University, China

WE1.R18.11: A NEW AUTOMATIC SHIP WAKE DETECTION FOR SENTINEL-1 IMAGERY

[Grosso, Elena](#), Surrey Space Centre, United Kingdom [Guida, Raffaella](#), Surrey Space Centre, United Kingdom

WE1.R18.12: SHIP DETECTION IN LARGE SCALE SAR IMAGES BASED ON BIAS CLASSIFICATION

[Wang, Xiaoya](#), University of Electronic Science and Technology of China, China [Cui, Zongyong](#), University of Electronic Science and Technology of China, China [Cao, Zongjie](#), University of Electronic Science and Technology of China, China [Tian, Yu](#), University of

Electronic Science and Technology of China, China

WE1.R19 - Clouds and Precipitation II

Wednesday, September 30, 05:00 - 07:00 • Room 19

WE1.R19.1: FIRST YEAR OF COSMIR OBSERVATIONS OF EAST COAST WINTER STORMS FROM THE IMPACTS CAMPAIGN

[Kroodsmas, Rachael](#), University of Maryland, United States [Adams, Ian](#), NASA Goddard Space Flight Center, United States [Fritts, Matthew](#), NASA Goddard Space Flight Center, United States [Munchak, S. Joseph](#), NASA Goddard Space Flight Center, United States

WE1.R19.2: STUDY OF ICE HYDROMETEORS USING D3R RADAR AND GROUND OBSERVATIONS DURING ICE-POP CAMPAIGN

[Chandrasekar, V.](#), Colorado State University, United States [Joshil, Shashank S.](#), Colorado State University, United States

WE1.R19.3: TROPICAL CYCLONE CONVECTION STRUCTURE EVOLUTION DURING RAPID INTENSIFICATION USING HIMAWARI-8 SATELLITE

[Zhang, Da](#), Aerospace Information Research Institute, China [Zhang, Jiahua](#), Aerospace Information Research Institute, China

WE1.R19.4: RESEARCH OF CLOUD DETECTION BASED ON MULTI-TEMPORAL THERMAL INFRARED DATA

[Wang, Jie](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Qi, Jianwei](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Liu, Yu](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Wang, Guanghui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

WE1.R19.5: CLOUD OBSERVATIONS FROM THE DEEP SPACE CLIMATE OBSERVATORY (DSOVR) AT THE EARTH LAGRANGE 1 POINT

[Yang, Yuekui](#), NASA, United States [Meyer, Kerry](#), NASA, United States [Wind, Galina](#), NASA, United States [Zhou, Yaping](#), NASA, United States [Marshak, Alexander](#), NASA, United States [Platnick, Steven](#), NASA, United States

WE1.R19.6: EXTENDING NASA'S MODIS/VIIRS CLOUD CLIMATE DATA RECORD TO THE ADVANCED GEOSTATIONARY IMAGERS

[Meyer, Kerry](#), NASA Goddard Space Flight Center, United States [Platnick, Steven](#), NASA Goddard Space Flight Center, United States [Holz, Robert](#), SSEC/U. Wisconsin, United States [Heidinger, Andrew](#), NOAA NESDIS-STAR, United States [Ackerman, Steve](#), U. Wisconsin, United States [Wind, Gala](#), SSAI/NASA GSFC, United States [Dutcher, Steve](#), SSEC/U. Wisconsin, United States

WE1.R19.7: IMPROVING QUANTITATIVE PRECIPITATION ESTIMATION BY X-BAND DUAL-POLARIZATION RADARS IN COMPLEX TERRAIN OVER THE BAY AREA IN CALIFORNIA, USA

[Biswas, Sounak](#), Colorado State University, United States [Cifelli, Robert](#), NOAA/ESRL, United States [Chandrasekar, V.](#), Colorado State University, United States

WE1.R19.8: RESOLVING THE PRECIPITATION MICROPHYSICAL VARIABILITY INDUCED BY OROGRAPHIC ENHANCEMENT IN COMPLEX TERRAIN OVER THE SAN FRANCISCO BAY AREA

[Chen, Haonan](#), NOAA Earth System Research Laboratory and Colorado State University, United States [Cifelli, Rob](#), NOAA Earth System Research Laboratory, United States [Chandrasekar, V.](#), Colorado State University, United States

WE1.R19.9: STUDY ON THE K-BAND EWRG SIGNAL PROCESSING FOR HIGH-RESOLUTION RAINFALL OBSERVATION

[Choi, Jeongho](#), Chosun College of Science & Technology, Korea (South) [Lim, Sanghun](#), Korea Institute of Civil Engineering and Building Technology, Korea (South) [Han, Myeongsun](#), Korea Institute of Civil Engineering and Building Technology, Korea (South)

WE1.R19.10: SUPPORTING LIGHTNING SAFETY AND DECISION SUPPORT AT THE

NASA GLOBAL HYDROLOGY RESOURCE CENTER DISTRIBUTED ACTIVE ARCHIVE CENTER

[Stano, Geoffrey](#), University of Alabama in Huntsville, United States [Sinclair, Leigh](#), University of Alabama in Huntsville, United States [Raphael, Essence](#), University of Alabama in Huntsville, United States [Harrison, Sherry](#), University of Alabama in Huntsville, United States [Peterson, Michael](#), Los Alamos National Laboratory, United States [Goodman, Steven](#), Thunderbolt Global Analytics, United States

WE1.R19.11: CHARACTERISTIC ANALYSIS OF TYPHOON MUFIA FROM FY-3B MWRI OBSERVATIONS

[Zhang, Ruanyu](#), Shanghai Spaceflight Institute of TT&C and Telecommunication, China [He, Qiurui](#), Luoyang Normal University, China [Zhang, Lanjie](#), Beijing Information Science and Technology University, China [Meng, Wanting](#), Shanghai Spaceflight Institute of TT&C and Telecommunication, China [Dong, Kesong](#), Shanghai Spaceflight Institute of TT&C and Telecommunication, China [Xie, Xinxin](#), Shanghai Spaceflight Institute of TT&C and Telecommunication, China

WE1.R19.12: EFFECTS OF CLOUD ON LAND SURFACE TEMPERATURE (LST) CHANGE IN THERMAL INFRARED REMOTE SENSING IMAGES: A CASE STUDY OF LANDSAT 8 DATA

[Abbasi, Bilawal](#), Chinese Academy of Agricultural Sciences, China [Qin, Zhihao](#), Chinese Academy of Agricultural Sciences, China [Du, Wenhui](#), Chinese Academy of Agricultural Sciences, China [Li, Shifeng](#), Chinese Academy of Agricultural Sciences, China [Fan, Jinlong](#), National Satellite Meteorological Center, China [Zhao, Shuhe](#), Nanjing University, China

WE1.R20 - Processing
Schemes for Hyperspectral
Imaging

Wednesday, September 30, 05:00 - 07:00 • Room 20

WE1.R20.1: HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON SEMI-SUPERVISED DUAL-BRANCH CONVOLUTIONAL AUTOENCODER WITH SELF-ATTENTION

[Feng, Jie](#), Xidian University, China [Ye, Zhanwei](#), Xidian University, China [Li, Di](#), Xidian University, China [Liang, Yuping](#), Xidian University, China [Tang, Xu](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China

WE1.R20.2: HYPERSPECTRAL BAND SELECTION USING MOTH-FLAME METAHEURISTIC OPTIMIZATION

[Worch, Ethan](#), Mississippi State University, United States [Samiappan, Sathishkumar](#), Mississippi State University, United States [Zhou, Meilun](#), Mississippi State University, United States [Ball, John E.](#), Mississippi State University, United States

WE1.R20.3: MULTI-DIMENSION CNN FOR HYPERSPECTRAL IMAGE CLASSIFICATION

[Cai, Haojie](#), China University of Geosciences, China [Chen, Tao](#), China University of Geosciences, China

WE1.R20.4: LOCAL CORRELATION BASED DATA GRAVITATION CLASSIFICATION FOR HYPERSPECTRAL IMAGE

[Zhang, Chenglong](#), China University of Petroleum (East China), China [Zhang, Aizhu](#), China University of Petroleum (East China), China [Sun, Genyun](#), China University of Petroleum (East China), China [Yao, Yanjuan](#), Satellite Environment Center, Ministry of Environmental Protection of China, China

WE1.R20.5: HYPERSPECTRAL IMAGE CLASSIFICATION VIA MULTI-SCALE ENCODER-DECODER NETWORK

[Ma, Jingjing](#), Xidian University, China [Wu, Linlin](#), Xidian University, China [Tang, Xu](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Zhu, Cheng](#), Xidian University, China [Ma, Junyong](#), Science and Technology on Electro-optic Control Laboratory, China [Jiao, Licheng](#), Xidian University, China

WE1.R20.6: SPECTRAL PROPERTIES ANALYSIS OF WASTEWATER IN OIL FIELD AND ITS REMOTE SENSING DETECTION WITH GF-2

[Liu, Yang](#), PetroChina, China [Zhang, Nannan](#), PetroChina, China [Guo, Hongyan](#), PetroChina, China [Huang, Shanhong](#), PetroChina, China [Huang, Miaofen](#), Guangdong Ocean University,

China [Liu, Song](#), PetroChina, China

[WE1.R20.7: UNSUPERVISED FEATURE EXTRACTION IN HYPERSPECTRAL IMAGE BASED ON IMPROVED NEIGHBORHOOD PRESERVING EMBEDDING](#)

[Feng, Jia](#), Harbin Institute of Technology, China [Zhang, Junping](#), Harbin Institute of Technology, China

[WE1.R20.8: MULTI-CLASSIFIERS CONSISTENCY BASED UNSUPERVISED MANIFOLD ALIGNMENT FOR CLASSIFICATION OF REMOTE SENSING IMAGES](#)

[Wei, Hongkang](#), China University of Geosciences, China [Ma, Li](#), China University of Geosciences, China [Liu, Xiaobo](#), China University of Geosciences, China

[WE1.R20.9: ACTIVE DEEP FEATURES EXTRACTION FOR HYPERSPECTRAL IMAGE CLASSIFICATION BASED ON DICTIONARY LEARNING](#)

[Wang, Xue](#), East China Normal University, China [Tan, Kun](#), East China Normal University, China [Jia, Xiuping](#), University of New South Wales, Australia [Liu, Zhaoxian](#), Second Surveying and Mapping Institute of Hebei, China

[WE1.R20.10: FEATURE CONCATENATION OF HYPERSPECTRAL AND DEM DATA FOR LAND COVER CLASSIFICATION](#)

[Gross, Wolfgang](#), Fraunhofer IOSB, Germany [Bulatov, Dimitri](#), Fraunhofer IOSB, Germany [Schreiner, Simon](#), Fraunhofer IOSB, Germany [Middelmann, Wolfgang](#), Fraunhofer IOSB, Germany

[WE1.R20.11: IMPROVED VEGETATION AND WILDFIRE FUEL TYPE MAPPING USING NASA AVIRIS-NG HYPERSPECTRAL DATA, INTERIOR AK](#)

[Smith, Christopher](#), University of Alaska Fairbanks, United States [Panda, Santosh](#), University of Alaska Fairbanks, United States [Bhatt, Uma](#), University of Alaska Fairbanks, United States [Meyer, Franz](#), University of Alaska Fairbanks, United States [Haan, Robert](#), University of Alaska Anchorage, United States

WE2.R1 - Soil Moisture Related Wednesday, September 30, 07:30 - 09:30 • Room 1 Applications

[WE2.R1.1: SENSITIVITY OF CYGNSS-DERIVED SOIL MOISTURE TO GLOBAL PRECIPITATION](#)

[Yan, Qingyun](#), Nanjing University of Information Science and Technology, China [Jin, Shuanggen](#), Nanjing University of Information Science and Technology, China [Huang, Weimin](#), Memorial University of Newfoundland, Canada [Jia, Yan](#), Nanjing University of Posts and Telecommunications, Canada

[WE2.R1.2: SOIL MOISTURE MAPPING WITH POLARIMETRIC SAR IN HUANGHE DELTA OF CHINA](#)

[Lan, Lihua](#), Key Laboratory of Target Microwave Properties and Remote Sensing of Zhejiang Province, China [Zhang, Tingting](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Shao, Yun](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ju, Zhengshan](#), Ministry of Natural Resources, China [Chai, Xun](#), Urban-Rural Planning Administration Center of Ministry of Natural Resources, China

[WE2.R1.3: IDENTIFYING TERRESTRIAL VEGETATION-SOIL MOISTURE OSCILLATION FROM SATELLITE OBSERVATIONS](#)

[He, Qing](#), Tsinghua University, China [Yue, Siyu](#), Tsinghua University, China [Lu, Hui](#), Tsinghua University, China [Liu, Zhuang](#), Tsinghua University, China [Huang, Xiaomeng](#), Tsinghua University, China [Entekhabi, Dara](#), Massachusetts Institute of Technology, United States

[WE2.R1.4: IMPROVING SOIL MOISTURE SPATIO-TEMPORAL RESOLUTION USING MACHINE LEARNING METHOD](#)

[Cui, Yaokui](#), Institute of RS and GIS, School of Earth and Space Sciences, Peking University, China [Chen, Xi](#), Institute of RS and GIS, School of Earth and Space Sciences, Peking University, China [Luo, Zengliang](#), Institute of RS and GIS, School of Earth and Space Sciences, Peking University, China

[WE2.R1.5: OPTIMIZATION OF MODEL PARAMETERS FOR SM ESTIMATION USING SENTINEL-1 DATA WITH EFFICIENT ANALYSIS OF WHEAT GROWTH CYCLE](#)

[Maurya, Ajay Kumar](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

[WE2.R1.6: OBSERVATION OF SOIL MOISTURE VERTICAL PROFILES FROM GNSS SIGNAL MULTI-PATH INTERFERENCES](#)

[Ma, Xiaoyu](#), Zhejiang University, China [Tang, Zhizhan](#), Zhejiang University, China [Tan, Shurun](#), Zhejiang University, China

[WE2.R1.7: SOIL MOISTURE RETRIEVAL ONLY USING SMAP L-BAND RADAR OBSERVATIONS](#)

[Yao, Panpan](#), Tsinghua University, China [Lu, Hui](#), Tsinghua University, China [Wang, Wenli](#), Tsinghua University, China [Shao, Changkun](#), Tsinghua University, China [Yang, Kun](#), Tsinghua University, China [Gianotti, Daniel](#), Massachusetts Institute of Technology, United States [Liu, Zhuang](#), Tsinghua University, China [Huang, Xiaomeng](#), Tsinghua University, China [Entekhabi, Dara](#), Massachusetts Institute of Technology, United States

[WE2.R1.8: ASSESSMENT OF SMAP AND ESA CCI SOIL MOISTURE OVER THE GREAT LAKES BASIN](#)

[Xu, Xiaoyong](#), University of Toronto Mississauga, Canada [Shew, Brandon](#), University of Toronto Mississauga, Canada [Zaman, Shadia](#), University of Toronto Mississauga, Canada [Lee, Joseph](#), University of Toronto Mississauga, Canada [Zhi, Yun](#), University of Toronto Mississauga, Canada

[WE2.R1.9: COMPARISON OF SMAP AND NLDAS-2 SOIL MOISTURE DATA SETS OVER THE SOUTHERN GREAT PLAINS](#)

[Jiang, Bo](#), Institute of Geographical Sciences and Natural Resources Research, China [Su, Hongbo](#), Florida Atlantic University, United States

[WE2.R1.10: MACHINE LEARNING BASED SOIL MOISTURE RETRIEVAL FROM UNMANNED AIRCRAFT SYSTEM MULTISPECTRAL REMOTE SENSING](#)

[Araya, Samuel](#), Stanford University, United States [Fryjoff-Hung, Anna](#), University of California, Merced, United States [Anderson, Andreas](#), University of California, Merced, United States [Viers, Joshua](#), University of California, Merced, United States [Ghezzehei, Teamrat](#), University of California, Merced, United States

[WE2.R1.11: MULTI-TEMPORAL CONVOLUTIONAL NEURAL NETWORKS FOR SATELLITE-DERIVED SOIL MOISTURE OBSERVATION ENHANCEMENT](#)

[Tsagkatakis, Grigorios](#), Foundation for Research and Technology Hellas (FORTH), Greece [Moghaddam, Mahta](#), University of Southern California, United States [Tsakalides, Panagiotis](#), Foundation for Research and Technology Hellas (FORTH), Greece

[WE2.R1.12: JOINT RETRIEVAL OF SOIL MOISTURE AND PERMAFROST ACTIVE LAYER THICKNESS USING L-BAND INSAR AND P-BAND POLSAR](#)

[Chen, Richard](#), NASA Jet Propulsion Laboratory, United States [Michaelides, Roger](#), Stanford University, United States [Sullivan, Taylor](#), University of Wyoming, United States [Parsekian, Andrew](#), University of Wyoming, United States [Zebker, Howard](#), Stanford University, United States [Moghaddam, Mahta](#), University of Southern California, United States [Schaefer, Kevin](#), National Snow and Ice Data Center, United States

WE2.R2 - Monitoring and Damage Assessment of Natural Disasters IV

Wednesday, September 30, 07:30 - 09:30 • Room 2

[WE2.R2.1: DETECTION OF FLOODING AGRICULTURAL FIELD BY TYPHOON HAGIBIS ON 2019 USING SAR IMAGERY](#)

[Yonezawa, Chinatsu](#), Tohoku University, Japan [Watanabe, Manabu](#), Tokyo Denki University, Japan

[WE2.R2.2: SUPPORTING RECOVERY AFTER 2016 HURRICANE MATTHEW IN HAITI WITH BIG SAR DATA PROCESSING IN THE GEOHAZARDS EXPLOITATION PLATFORM \(GEP\)](#)

[Cigna, Francesca](#), Italian Space Agency (ASI), Italy [Tapete, Deodato](#), Italian Space Agency (ASI), Italy [Danzeglocke, Jens](#), German Aerospace Center (DLR), Germany [Bally, Philippe](#), European Space Agency, Italy [Cuccu, Roberto](#), RSS, Italy [Papadopolou, Theodora](#), ARGANS,

France [Caumont, Hervé](#), Terradue, Italy [Collet, Agwilh](#), CNES, France [de Boissezon, Helene](#), CNES, France [Eddy, Andrew](#), Athena Global, France [Piard, Bobby E.](#), CNIGS, Haiti

WE2.R2.3: THE APPLICATION OF REMOTE SENSING PRECIPITATION PRODUCTS FOR RUNOFF MODELLING AND FLOOD INUNDATION AREA ESTIMATION IN TYPICAL MONSOON BASINS OF INDOCHINA PENINSULA

[Li, Rui](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Shi, Jiancheng](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Ji, Dabin](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Zhao, Tianjie](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Moukomla, Sitthisak](#), Geo-Informatics and Space Technology Development Agency, Thailand
[Plermkamon, Vichian](#), Khon Kaen University, Thailand
[Lei, Yonghui](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Pan, Jinmei](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Jia, Huicong](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Yang, Aqiang](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

WE2.R2.4: EVALUATION OF BURNT BUILDING DAMAGE USING SENTINEL-1 AND SENTINEL-2 DATA

[Jung, Jungkyo](#), NASA Jet Propulsion Laboratory, United States
[Yun, Sang-Ho](#), NASA Jet Propulsion Laboratory, United States
[Xu, Jeri](#), Swiss Re America Holding Corporation, United States
[Xie, Boyi](#), Swiss Re America Holding Corporation, United States

WE2.R2.5: WARNING OF RAINFALL-INDUCED LANDSLIDE IN BAZHOU DISTRICT

[Li, Mujie](#), University of Electronic Science and Technology of China, China
[Zhu, Mingcang](#), Department of Natural Resources of Sichuan Province, China
[He, Yong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China
[He, Zhanyong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China
[Wang, Na](#), University of Electronic Science and Technology of China, China
[Zheng, Zezhong](#), University of Electronic Science and Technology of China, China
[Zhou, Guoqing](#), Guilin University of Technology, China

WE2.R2.6: RAPID FLOOD MAPPING USING SENTINEL-1A IMAGES: A CASE STUDY OF FLOOD IN PANAMARAM, KERALA

[Devara, Meghanadh](#), MNNIT ALLAHABAD, India
[Jaiswal, Akshay Kumar](#), MNNIT ALLAHABAD, India
[Maurya, Vipin Kumar](#), MNNIT ALLAHABAD, India
[Dwivedi, Ramji](#), MNNIT ALLAHABAD, India

WE2.R2.7: INTRODUCTION OF SPATIAL AND TEMPORAL DISTRIBUTION OF TYPHOONS FROM 1989 TO 2018 AND TYPICAL CASES OF DISASTER IMPACT ANALYSIS

[Chen, Yi-ting](#), Beijing Normal University, China
[Tian, Feng](#), Beijing Normal University, China
[Yang, Hua](#), Beijing Normal University, China
[Wu, Jian-jun](#), Beijing Normal University, China
[Zhou, Hong-min](#), Beijing Normal University, China

WE2.R2.8: MULTI-AGENT DEEP REINFORCEMENT LEARNING BASED INTERDEPENDENT CRITICAL INFRASTRUCTURE SIMULATION MODEL FOR SITUATIONAL AWARENESS DURING A FLOOD EVENT

[Rajulapati, Parashuram Shourya](#), Indian Institute of Technology Bombay, India
[Nukavarapu, Nivedita](#), Indian Institute of Technology Bombay, India
[Durbha, Surya](#), Indian Institute of Technology Bombay, India

WE2.R2.9: ASSESSMENT OF GRACE DATA RESPONSE TO GLOBAL DROUGHT EVENTS FROM 2003 TO 2016

[Lu, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Jia, Li](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Zhou, Jie](#), Central China Normal University, China
[Jiang, Min](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE2.R2.10: STUDY ON REGIONAL DROUGHT MONITORING BASED ON MULTI-SOURCES DATA IN CHINA

[Xin, Jingfeng](#), China Institute of Water Resources and Hydropower Research, China
[Yang, Yongmin](#), China Institute of Water Resources and Hydropower Research, China
[Huang,](#)

[Shifeng](#), China Institute of Water Resources and Hydropower Research, China

WE2.R2.11: DROUGHT MONITORING IN SUB-SAHARA AFRICA

[Mou, Fan](#), University of Electronic Science and Technology of China, China [Akwasii, Twum-Antwi](#), University of Electronic Science and Technology of China, China [Li, Mujie](#), University of Electronic Science and Technology of China, China [Mingcang, Zhu](#), Department of Natural Resources of Sichuan Province, China [He, Yong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [He, Zhanyong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [Xiao, Yang](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [Ren, Juan](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [Xia, Jun](#), University of Electronic Science and Technology of China, China [Zhang, Xiang](#), Wuhan University, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China [Zhou, Guoqing](#), Guilin University of Technology, China

WE2.R2.12: A FULLY AUTOMATIC METHOD FOR RAPIDLY MAPPING IMPACTED AREA BY NATURAL DISASTER

[Liu, Tao](#), Oak Ridge National Laboratory, United States [Yang, Lexie](#), Oak Ridge National Laboratory, United States

WE2.R3 - Spatial and Temporal Wednesday, September 30, 07:30 - 09:30 • Room 3 Interpolation Approaches and Applications

WE2.R3.1: A SPATIALIZATION METHOD OF POPULATION DATA CONSIDERING SPATIAL HETEROGENEITY

[Zhao, Zhen](#), Earthquake Administration of Sichuan Province, China [Guo, HongMei](#), Earthquake Administration of Sichuan Province, China [Zhang, Ying](#), Earthquake Administration of Sichuan Province, China [Shen, Yuan](#), Earthquake Administration of Sichuan Province, China

WE2.R3.2: RAPID ESTIMATION OF ORTHOGONAL MATCHING PURSUIT REPRESENTATION

[Chatterjee, Ayan](#), Cranfield University, United Kingdom [Yuen, Peter](#), Cranfield University, United Kingdom

WE2.R3.3: PRODUCING A GAP-FREE LANDSAT TIME SERIES FOR THE TAITA HILLS, SOUTHEASTERN KENYA

[Tang, Zhipeng](#), University of Helsinki, Finland [Adhikari, Hari](#), University of Helsinki, Finland [Pellikka, Petri](#), University of Helsinki, Finland [Heiskanen, Janne](#), University of Helsinki, Finland

WE2.R3.4: A NOVEL GENERAL SEMISUPERVISED DEEP LEARNING FRAMEWORK FOR CLASSIFICATION AND REGRESSION WITH REMOTE SENSING IMAGES

[Chen, Zhao](#), Donghua University, China [Chen, Guangchen](#), Donghua University, China [Zhou, Feng](#), Donghua University, China [Yang, Bin](#), Donghua University, China [Wang, Lili](#), Donghua University, China [Liu, Qiong](#), Donghua University, China [Chen, Yonghang](#), Donghua University, China

WE2.R3.5: INFINITE NUMBER OF LOOKS PREDICTION IN POLSAR FILTERING BY LINEAR REGRESSION

[Yahia, Mohamed](#), GIS and Mapping Laboratory, American University of Sharjah UAE, United Arab Emirates [Ali, Tarig](#), GIS and Mapping Laboratory, American University of Sharjah UAE, United Arab Emirates [Mortula, Maruf](#), American University of Sharjah UAE, Tunisia [Abdelfattah, Riadh](#), Université de Carthage: COSIM Lab, Higher School of Communications of Tunis, Tunisia [Elmahdy, Samy](#), GIS and Mapping Laboratory, American University of Sharjah UAE, United Arab Emirates

WE2.R3.6: A DEEP GAUSSIAN PROCESS FOR FORECASTING CROP YIELD AND TIME SERIES ANALYSIS OF PRECIPITATION BASED IN MUNSHIGANJ, BANGLADESH

[Mahdi, Mostafa Didar](#), North South University, Bangladesh [Mrittika, Nusrat Jahan](#), North South University, Bangladesh [Shams, Maleeha](#), North South University, Bangladesh [Chowdhury, Labib](#), North South University, Bangladesh [Siddique, Shahnewaz](#), North South University, Bangladesh

WE2.R3.7: AZIMUTH VELOCITY ESTIMATION IN MULTI-CHANNEL SAR BASED ON VARIABLE-BORESIGHT MODE

[Ren, Yahua](#), Shanghai Jiao Tong University, China [Wang, Junfeng](#), Shanghai Jiao Tong University, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China [Gao, Yesheng](#), Shanghai Jiao Tong University, China

WE2.R3.8: WATER BODY DETECTION AND WATER QUALITY MONITORING IN THE DAM BASED ON THE X-BAND SAR AND OPTICAL DATA

[Lee, Boram](#), Sejong University, Korea (South) [Lee, Yoon-Kyung](#), Sejong University, Korea (South) [Kim, Sang-Wan](#), Sejong University, Korea (South)

WE2.R3.9: REMOTE SENSING IMAGES INPAINTING BASED ON STRUCTURED LOW-RANK MATRIX APPROXIMATION

[Hu, Yue](#), Harbin Institute of Technology, China [Wei, Zidi](#), Harbin Institute of Technology, China [Zhao, Kuangshi](#), No.703 Research Institute of CSIC, China

WE2.R3.10: LAND COVER CLASSIFICATION OF AN AREA SUSCEPTIBLE TO LANDSLIDES USING RANDOM FOREST AND NDVI TIME SERIES DATA

[Uehara, Tatiana Dias Tardelli](#), Brazil's National Institute for Space Research, Brazil [Soares, Anderson Reis](#), Brazil's National Institute for Space Research, Brazil [Quevedo, Renata Pacheco](#), Brazil's National Institute for Space Research, Brazil [Körting, Thales Sehn](#), Brazil's National Institute for Space Research, Brazil [Fonseca, Leila Maria Garcia](#), Brazil's National Institute for Space Research, Brazil [Adami, Marcos](#), Brazil's National Institute for Space Research, Brazil

WE2.R4 - Space Lidar:
Missions, Technologies and
Observations

Wednesday, September 30, 07:30 - 09:30 • Room 4

WE2.R4.2: STATUS OF ESA'S EARTHCARE MISSION PREPARATION

[Wallace, Kotska](#), European Space Agency, Netherlands [Lefebvre, Alain](#), European Space Agency, Netherlands [Pereira do Carmo, João](#), European Space Agency, Netherlands [Gollor, Matthias](#), European Space Agency, Netherlands [Eisinger, Michael](#), European Space Agency, United Kingdom [Nakatsuka, Hirotaka](#), Japan Aerospace Exploration Agency, Japan [Tomita, Eiichi](#), Japan Aerospace Exploration Agency, Japan

WE2.R4.3: AEOLUS - ESA'S WIND LIDAR MISSION, A BRIEF STATUS

[Kanitz, Thomas](#), European Space Agency (ESA-ESTEC), Netherlands [Wernham, Denny](#), European Space Agency (ESA-ESTEC), Netherlands [Alvarez, Emilio](#), European Space Agency (ESA-ESTEC), Netherlands [Tzeremes, Georgios](#), European Space Agency (ESA-ESTEC), Netherlands [Parrinello, Tommaso](#), European Space Agency (ESA-ESRIN), Italy [Marshall, Jon](#), Airbus Stevenage, United Kingdom [Brewster, John](#), Airbus Stevenage, United Kingdom [Lecrenier, Olivier](#), Airbus Toulouse, France [Schillinger, Marc](#), Airbus Toulouse, France [De Sanctis, Valeria](#), Leonardo Pomezia, Italy [D'Ottavi, Alessandro](#), Leonardo Pomezia, Italy [Reitebuch, Oliver](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Weiler, Fabian](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Lux, Oliver](#), German Aerospace Center (DLR) Oberpfaffenhofen, Germany [Rennie, Michael](#), European Centre for Medium-Range Weather Forecast, United Kingdom [Isaksen, Lars](#), European Centre for Medium-Range Weather Forecast, United Kingdom

WE2.R4.4: PROGRESS OF THE ISS BASED VEGETATION LIDAR MISSION, MOLI - JAPAN'S FIRST SPACE-BASED LIDAR

[Sakaizawa, Daisuke](#), Japan Aerospace Exploration Agency, Japan [Nguyen, Tat Trung](#), Japan Aerospace Exploration Agency, Japan [Mitsuhashi, Rei](#), Japan Aerospace Exploration Agency, Japan [Sawada, Yoshito](#), Japan Aerospace Exploration Agency, Japan [Imai, Tadashi](#), Japan Aerospace Exploration Agency, Japan [Kimura, Toshiyoshi](#), Japan Aerospace Exploration Agency, Japan

WE2.R4.5: INTEGRATED PHOTONICS TECHNOLOGY FOR SPACE-BASED REMOTE-SENSING

[Klamkin, Jonathan](#), University of California, Santa Barbara, United States [Stephen, Mark](#), NASA Goddard Space Flight Center, United States

[WE2.R4.6: FLIGHT LIDAR DEVELOPMENT AND QUALIFICATION FOR THE ESA EARTH CLOUD AEROSOL AND RADIATION EXPLORER \(EARTHCARE\) MISSION](#)

[Pereira do Carmo, João](#), European Space Agency, Netherlands [Wallace, Kotska](#), European Space Agency, Netherlands [Lefebvre, Alain](#), European Space Agency, Netherlands

[WE2.R4.7: ORBITING AND IN-SITU LIDARS FOR EARTH AND PLANETARY APPLICATIONS](#)

[Yu, Anthony](#), NASA Goddard Space Flight Center, United States [Troupaki, Elisavet](#), NASA Goddard Space Flight Center, United States [Li, Steven](#), NASA Goddard Space Flight Center, United States [Coyle, Barry](#), NASA Goddard Space Flight Center, United States [Stysley, Paul](#), NASA Goddard Space Flight Center, United States [Numata, Kenji](#), NASA Goddard Space Flight Center, United States [Fahey, Molly](#), NASA Goddard Space Flight Center, United States [Stephen, Mark](#), NASA Goddard Space Flight Center, United States [Yang, Guangning](#), NASA Goddard Space Flight Center, United States [Chen, Jeffrey](#), NASA Goddard Space Flight Center, United States [Micalizzi, Frankie](#), NASA Goddard Space Flight Center, United States [Merritt, Scott](#), NASA Goddard Space Flight Center, United States [Lafon, Robert](#), NASA Goddard Space Flight Center, United States [Wu, Stewart](#), NASA Goddard Space Flight Center, United States [Yevick, Aaron](#), NASA Goddard Space Flight Center, United States [Jiao, Hua](#), NASA Goddard Space Flight Center, United States [Bai, Yingxin](#), NASA Goddard Space Flight Center, United States [Konoplev, Oleg](#), NASA Goddard Space Flight Center, United States [Vasilyev, Aleksey](#), NASA Goddard Space Flight Center, United States [Mullin, Matthew](#), NASA Goddard Space Flight Center, United States

[WE2.R4.8: DEVELOPMENT OF A FLASH-LIDAR ELEGANT BREADBOARD MODEL FOR RENDEZVOUS APPLICATIONS](#)

[Haugholt, Karl Henrik](#), SINTEF, Norway [Hansen, Anders H](#), SINTEF, Norway [Risholm, Petter](#), SINTEF, Norway [Thielemann, Jens T.](#), SINTEF, Norway [Tzeremes, Georgios](#), European Space Agency, Belgium

WE2.R5 - Advanced Clustering Wednesday, September 30, 07:30 - 09:30 • Room 5
Methods for Remote Sensing
Data II

[WE2.R5.1: A COMPARATIVE STUDY OF DEEP LEARNING LOSS FUNCTIONS FOR MULTI-LABEL REMOTE SENSING IMAGE CLASSIFICATION](#)

[Yessou, Hichame](#), Technische Universität Berlin, Germany [Sumbul, Gencer](#), Technische Universität Berlin, Germany [Demir, Begüm](#), Technische Universität Berlin, Germany

[WE2.R5.2: A CNN-GCN FRAMEWORK FOR MULTI-LABEL AERIAL IMAGE SCENE CLASSIFICATION](#)

[Li, Yansheng](#), Wuhan University, China [Chen, Ruixian](#), Wuhan University, China [Zhang, Yongjun](#), Wuhan University, China [Li, Hang](#), Beijing Aerospace System Engineering Research Institute, China

[WE2.R5.3: CLASS-WISE ADVERSARIAL TRANSFER NETWORK FOR REMOTE SENSING SCENE CLASSIFICATION](#)

[Liu, Zixu](#), China University of Geosciences, China [Ma, Li](#), China University of Geosciences, China

[WE2.R5.4: RELATIONSHIPS EXCAVATING OF AUGMENTED FEATURE FOR REMOTE SENSING SCENE CLASSIFICATION](#)

[Dan, Lei](#), Northwestern Polytechnical University, China [Li, Xuelong](#), Northwestern Polytechnical University, China

[WE2.R5.5: AN OPEN SET DOMAIN ADAPTATION NETWORK BASED ON ADVERSARIAL LEARNING FOR REMOTE SENSING IMAGE SCENE CLASSIFICATION](#)

[Zhang, Jun](#), Hebei University of Technology, China [Liu, Jiao](#), Hebei University of Technology, China [Shi, Lukui](#), Hebei University of Technology, China [Pan, Bin](#), Nankai University, China [Xu, Xia](#), NanKai University, China

[WE2.R5.6: RSSM-NET: REMOTE SENSING IMAGE SCENE CLASSIFICATION BASED ON MULTI-OBJECTIVE NEURAL ARCHITECTURE SEARCH](#)

[Wan, Yuting](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China [Ma, Ailong](#),

Wuhan University, China [Wang, Junjue](#), Wuhan University, China [Feng, Ruyi](#), China University of Geosciences (Wuhan), China

[WE2.R5.7: TOPIC MODEL FOR REMOTE SENSING DATA: A COMPREHENSIVE REVIEW](#)

[Zhu, Qiqi](#), China University of Geosciences, China [Wan, Jiangqin](#), China University of Geosciences, China [Zhong, Yanfei](#), Wuhan University, China [Guan, Qingfeng](#), China University of Geosciences, China [Zhang, Liangpei](#), Wuhan University, China [Li, Deren](#), Wuhan University, China

[WE2.R5.8: MAPPING LOCAL CLIMATE ZONES WITH CIRCLED SIMILARITY PROPAGATION BASED DOMAIN ADAPTATION](#)

[Zhao, Nan](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China [Ma, Ailong](#), Wuhan University, China

[WE2.R5.9: UNSUPERVISED MIXED MULTI-TARGET DOMAIN ADAPTATION FOR REMOTE SENSING IMAGES CLASSIFICATION](#)

[Zheng, Juepeng](#), Tsinghua University, China [Wu, Wenzhao](#), Tsinghua University, China [Fu, Haohuan](#), Tsinghua University, China [Li, Weijia](#), Chinese University of Hong Kong, China [Dong, Runmin](#), Tsinghua University, China [Zhang, Lixian](#), Tsinghua University, China [Yuan, Shuai](#), Tsinghua University, China

[WE2.R5.10: UNSUPERVISED STYLE TRANSFER VIA DUALGAN FOR CROSS-DOMAIN AERIAL IMAGE CLASSIFICATION](#)

[Li, Yansheng](#), Wuhan University, China [Shi, Te](#), Wuhan University, China [Chen, Wei](#), Wuhan University, China [Zhang, Yongjun](#), Wuhan University, China [Wang, Zhibin](#), Alibaba Group, China [Li, Hao](#), Alibaba Group, China

[WE2.R5.11: MAPPING DEFORESTED AREAS IN THE CERRADO BIOME THROUGH RECURRENT NEURAL NETWORKS](#)

[Matosak, Bruno Menini](#), National Institute for Space Research (INPE), Brazil [Maretto, Raian Vargas](#), National Institute for Space Research (INPE), Brazil [Körting, Thales Sehn](#), National Institute for Space Research (INPE), Brazil [Adami, Marcos](#), National Institute for Space Research (INPE), Brazil [Fonseca, Leila Maria Garcia](#), National Institute for Space Research (INPE), Brazil

WE2.R6 - Ground Penetrating Radar Wednesday, September 30, 07:30 - 09:30 • Room 6

[WE2.R6.1: SEMI-SUPERVISED DEEP LEARNING SEISMIC IMPEDANCE INVERSION USING GENERATIVE ADVERSARIAL NETWORK](#)

[Meng, Delin](#), School of Mathematics and Statistics, Xi'an Jiaotong University, China [Wu, Bangyu](#), School of Mathematics and Statistics, Xi'an Jiaotong University, China [Liu, Naihao](#), School of Information and Communications Engineering, Xi'an Jiaotong University, China [Chen, Wenchao](#), School of Information and Communications Engineering, Xi'an Jiaotong University, China

[WE2.R6.2: NONDESTRUCTIVE MICROWAVE SPECTROSCOPY IN CALCITE-RICH SHALE CORE SLABS](#)

[Alvarez, Jose Oliverio](#), Aramco Americas: Aramco Research Center - Houston, United States [Jacobi, David](#), Aramco Americas: Aramco Research Center - Houston, United States

[WE2.R6.3: DIFFERENTIAL ELECTROMAGNETIC INDUCTION SENSOR USING A SPINNING MAGNET EXCITATION](#)

[Scott, Waymond](#), Georgia Institute of Technology, United States

[WE2.R6.4: AN UNBALANCED SINUSOIDAL ANTENNA FOR ULTRA-WIDEBAND POLARIMETRIC GROUND-PENETRATING RADAR](#)

[Crocker, Dylan](#), Sandia National Laboratories, United States [Scott, Waymond](#), Georgia Institute of Technology, United States

[WE2.R6.5: STOLT MIGRATION IMAGING FOR SHORT-PULSE GROUND-PENETRATING RADAR BASED ON COMPRESSIVE SENSING](#)

[Qu, Lele](#), Shenyang Aerospace University, China [Li, Zhen](#), Shenyang Aerospace University, China [Fathy, Aly E.](#), University of Tennessee at Knoxville, United States

WE2.R6.6: INVERSION OF UNDERGROUND STRUCTURE BASED ON GA_RLPSO TIME-DOMAIN FULL WAVEFORM CONJUGATE GRADIENT METHOD

[Shi, Mengyang](#), Shanghai Jiao Tong University, China [Shi, Wenxuan](#), Shanghai Jiao Tong University, China [Gao, Yesheng](#), Shanghai Jiao Tong University, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China [Yuan, Bin](#), Shanghai Jiao Tong University, China

WE2.R6.7: GROUND-BASED ULTRA WIDEBAND DUAL-POLARIZED RADAR SOUNDING OF GREENLAND ICE SHEETS

[Li, Linfeng](#), University of Alabama, United States [Yan, Jie-Bang](#), University of Alabama, United States [Gogineni, Siva](#), University of Alabama, United States [O'Neill, Charles](#), University of Alabama, United States [Dahl-Jensen, Dorte](#), University of Manitoba, Canada [Simpson, Christopher](#), University of Alabama, United States [Taylor, Ryan](#), University of Alabama, United States [Elluru, Deepak](#), University of Alabama, United States [Wattal, Shashank](#), University of Alabama, United States [Nunn, Joshua](#), University of Alabama, United States [Campbell, Reed](#), University of Alabama, United States [Steinhage, Daniel](#), Alfred Wegener Institute, Germany [Miller, Heinrich](#), Alfred Wegener Institute, Germany [Eisen, Olaf](#), Alfred Wegener Institute, Germany

WE2.R6.8: PROCESSING-BASED SYNCHRONIZATION APPROACH FOR BISTATIC RADAR GLACIAL TOMOGRAPHY

[Bienert, Nicole](#), Stanford University, United States [Schroeder, Dustin](#), Stanford University, United States [Peters, Sean](#), Stanford University, United States [Siegfried, Matthew](#), Colorado School of Mines, United States

WE2.R6.9: A PSEUDOSPECTRAL TIME-DOMAIN SIMULATOR FOR LARGE-SCALE HALF-SPACE ELECTROMAGNETIC SCATTERING AND RADAR SOUNDING APPLICATIONS

[Lei, Yang](#), California Institute of Technology, United States [Haynes, Mark](#), NASA Jet Propulsion Laboratory, United States [Arumugam, Darmindra](#), NASA Jet Propulsion Laboratory, United States [Elachi, Charles](#), California Institute of Technology, United States

WE2.R6.10: A NARROWBAND MULTI-FREQUENCY RADAR SOUNDING ARCHITECTURE TO CORRECT SUBSURFACE INTERFACE ROUGHNESS EFFECTS

[Broome, Anna](#), Stanford University, United States [Schroeder, Dustin](#), Stanford University, United States

WE2.R6.11: AN ACCURATE LOW-COST METHOD FOR Q-FACTOR AND RESONANCE FREQUENCY MEASUREMENTS OF RF AND MICROWAVE RESONATORS

[Akbar, Fatemeh](#), California Institute of Technology, United States [Yektakhah, Behzad](#), University of Michigan, United States [Xu, Haokui](#), University of Michigan, United States [Sarabandi, Kamal](#), University of Michigan, United States

**WE2.R7 - Incorporating
Physics into Deep Learning**

Wednesday, September 30, 07:30 - 09:30 • Room 7

WE2.R7.1: PHYSICS-GUIDED MACHINE LEARNING: ADVANCES IN AN EMERGING PARADIGM COMBINING SCIENTIFIC KNOWLEDGE WITH MACHINE LEARNING

[Karpatne, Anuj](#), Virginia Tech, United States

WE2.R7.2: PHYSICALLY INFORMED NEURAL NETWORKS FOR THE SIMULATION AND DATA-ASSIMILATION OF GEOPHYSICAL DYNAMICS

[Ouala, Said](#), IMT-Atlantique, France [Fablet, Ronan](#), IMT-Atlantique, France [Drumetz, Lucas](#), IMT-Atlantique, France [Chapron, Bertrand](#), Ifremer, France [Pascual, Ananda](#), IMEDEA, Spain [Collard, Fabrice](#), ODL, France [Gaultier, Lucile](#), ODL, France

WE2.R7.3: PROCESS GUIDED DEEP LEARNING FOR MODELING PHYSICAL SYSTEMS: AN APPLICATION IN LAKE TEMPERATURE MODELING

[Jia, Xiaowei](#), University of Minnesota, United States [Willard, Jared](#), University of Minnesota, United States [Karpatne, Anuj](#), Virginia Tech, United States [Read, Jordan](#), USGS, United States [Zwart, Jacob](#), USGS, United States [Steinbach, Michael](#), University of Minnesota, United States [Kumar, Vipin](#), University of Minnesota, United States

WE2.R7.4: VISUALIZATION OF DEEP TRANSFER LEARNING IN SAR IMAGERY

[Taufique, Abu Md Niamul](#), Rochester Institute of Technology, United States [Nagananda,](#)

[Navya](#), Rochester Institute of Technology, United States [Savakis, Andreas](#), Rochester Institute of Technology, United States

[WE2.R7.5: EXPLORING THE RELATIONSHIPS BETWEEN SCATTERING PHYSICS AND AUTO-ENCODER LATENT-SPACE EMBEDDING](#)

[De, Shaunak](#), Orbital Insight Inc., United States [Clanton, Christian](#), Orbital Insight Inc., United States [Bickerton, Steven](#), Orbital Insight Inc., United States [Baney, Oliwia](#), Orbital Insight Inc., United States [Patnaik, Kaushik](#), Orbital Insight Inc., United States

[WE2.R7.6: ON THE OPTIMAL DESIGN OF CONVOLUTIONAL NEURAL NETWORKS FOR EARTH OBSERVATION DATA ANALYSIS BY MAXIMIZATION OF INFORMATION EXTRACTION](#)

[Marinoni, Andrea](#), UiT The Arctic University of Norway, Norway [Iannelli, Gianni Christian](#), Ticinum Aerospace, Italy [Khaleghian, Salman](#), UiT The Arctic University of Norway, Norway [Gamba, Paolo](#), University of Pavia, Italy

[WE2.R7.7: BUILDING EXTRACTION BY GATED GRAPH CONVOLUTIONAL NEURAL NETWORK WITH DEEP STRUCTURED FEATURE EMBEDDING](#)

[Shi, Yilei](#), Technical University of Munich, Germany [Li, Qinyu](#), Technical University of Munich, Germany [Zhu, Xiao Xiang](#), Technical University of Munich, Germany

[WE2.R7.8: MULTI-SPECTRAL IMAGE CLASSIFICATION WITH QUANTUM NEURAL NETWORK](#)

[Gawron, Piotr](#), Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences, Poland [Lewiński, Stanisław](#), Space Research Centre, Polish Academy of Sciences, Poland

[WE2.R7.9: AN ENSEMBLE APPROACH FOR COMPRESSIVE SENSING WITH QUANTUM ANNEALERS](#)

[Ayanzadeh, Ramin](#), University of Maryland, Baltimore County, United States [Halem, Milton](#), University of Maryland, Baltimore County, United States [Finin, Tim](#), University of Maryland, Baltimore County, United States

WE2.R8 - Remote Sensing Measurements of Small Scale and Submesoscale Processes in the Ocean Wednesday, September 30, 07:30 - 09:30 • Room 8

[WE2.R8.1: DETECTION OF INTERNAL SOLITARY WAVES WITH CONVENTIONAL AND ADVANCED SAR ALTIMETRY PROCESSING METHODS: PRELIMINARY RESULTS](#)

[da Silva, José C. B.](#), CIIMAR - Interdisciplinary Centre of Marine and Environmental Research; University of Porto, Portugal [Santos-Ferreira, Adriana M.](#), CIIMAR - Interdisciplinary Centre of Marine and Environmental Research; University of Porto, Portugal [Rieu, Pierre](#), Collecte et Localisation Satellites, France [Moreau, Thomas](#), Collecte et Localisation Satellites, France [Borde, Frank](#), European Space Agency, Netherlands [Boy, Francois](#), Centre National d'Etudes Spatiales (CNES), France [Maraldi, Claire](#), Centre National d'Etudes Spatiales (CNES), France [Picot, Nicolas](#), Centre National d'Etudes Spatiales (CNES), France [Donlon, Craig](#), European Space Agency, Netherlands

[WE2.R8.2: CAN WE RETRIEVE INTERNAL SOLITON AMPLITUDES IN THE OCEAN WITH SAR ALTIMETRY? WHAT WOULD THIS BE GOOD FOR?](#)

[Santos-Ferreira, Adriana M.](#), Faculty of Sciences, University of Porto; Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), Portugal [da Silva, José C. B.](#), Faculty of Sciences, University of Porto; Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), Portugal

[WE2.R8.3: PRELIMINARY ANALYSIS OF TROPICAL CYCLONE OCEAN WAVES USING SENTINEL-1 SAR DATA.](#)

[Hu, Denghui](#), Institut français de recherche pour l'exploitation de la mer (IFREMER) , France [Mouche, Alexis](#), Institut français de recherche pour l'exploitation de la mer (IFREMER) , France [Chapron, Bertrand](#), Institut français de recherche pour l'exploitation de la mer (IFREMER) , France [Xu, Yongsheng](#), Institute of Oceanology, Chinese Academy of Sciences, China

[WE2.R8.4: S-MODE: THE SUB-MESOSCALE OCEAN DYNAMICS EXPERIMENT](#)

[Farrar, J. Thomas](#), Woods Hole Oceanographic Institution, United States [D'Asaro, Eric](#), University of Washington, United States [Rodriguez, Ernesto](#), California Institute of Technology, United States [Shcherbina, Andrey](#), University of Washington, United States [Czech, Erin](#), National Aeronautics and Space Administration, United States [Matthias, Paul](#), Woods Hole Oceanographic Institution, United States [Nicholas, Sommer](#), National Aeronautics and Space Administration, United States [Bingham, Frederick](#), University of North Carolina Wilmington, United States [Mahedevan, Amala](#), Woods Hole Oceanographic Institution, United States [Omand, Melissa](#), University of Rhode Island, United States [Rainville, Luc](#), University of Washington, United States [Lee, Craig](#), University of Washington, United States [Chelton, Dudley](#), Oregon State University, United States [Samelson, Roger](#), Oregon State University, United States [O'Neill, Larry](#), Oregon State University, United States [Lenain, Luc](#), Scripps Institution of Oceanography, United States [Menemenlis, Dimitris](#), California Institute of Technology, United States [Perkovic-Martin, Dragana](#), California Institute of Technology, United States [Mouroulis, Pantazis](#), California Institute of Technology, United States [Gierach, Michelle](#), California Institute of Technology, United States [Thompson, David](#), California Institute of Technology, United States [Wineteer, Alexander](#), California Institute of Technology, United States [Thompson, Andrew](#), California Institute of Technology, United States [McWilliams, James C.](#), University of California, Los Angeles, United States [Molemaker, Jeroen](#), University of California, Los Angeles, United States [Barkan, Roy](#), University of California, Los Angeles, United States [Wenegrat, Jacob](#), University of Maryland, United States [Rocha, Cesar](#), Woods Hole Oceanographic Institution, United States [Jacobs, Gregg](#), Naval Research Laboratory, United States [D'Addezio, Joseph](#), Naval Research Laboratory, United States [de Halleux, Sebastien](#), Saildrone, Inc., United States [Jenkins, Richard](#), Saildrone, Inc., United States

WE2.R8.5: SMALL-SCALE AND SUB-MESOSCALE PHENOMENA ASSOCIATED WITH UPWELLING STUDIED BY SAR

[Alpers, Werner](#), University of Hamburg, Germany [Bignami, Francesco](#), ISMAR-CNR Sede Secondaria di Roma, Italy

WE2.R8.6: ALTIMETER AS AN IMAGER OF THE SEA SURFACE ROUGHNESS: COMPARISON OF SAR AND LRM MODES

[Tournadre, Jean](#), IFREMER, France [Chapron, Bertrand](#), IFREMER, France

WE2.R8.7: FILM SLICKS ON THE SEA SURFACE: THEIR DYNAMICS AND REMOTE SENSING

[Ermakov, Stanislav](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Danilicheva, Olga](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Kapustin, Ivan](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Shomina, Olga](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Sergievskazya, Irina](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Kupaev, Aleksandr](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia [Molkov, Aleksandr](#), Institute of Applied Physics of the Russian Academy of Sciences, Russia

WE2.R8.8: STUDIES OF INTERNAL WAVES IN THE STRAIT OF GEORGIA BASED ON REMOTE SENSING IMAGES

[Wang, Caixia](#), Ocean University of China, China [Wang, Xin](#), Ocean University of China, China [da Silva, Jose](#), University of Porto, Portugal

WE2.R9 - Adaptive Segmentation and Optimization

Wednesday, September 30, 07:30 - 09:30 • Room 9

WE2.R9.1: ADAPTIVE SUPERPIXEL SEGMENTATION WITH FISHER VECTORS FOR SHIP DETECTION IN SAR IMAGES

[Wang, Xueqian](#), Tsinghua University, China [Li, Gang](#), Tsinghua University, China [Plaza, Antonio](#), University of Extremadura, Spain

WE2.R9.2: MAPPING OF URBAN AREAS FROM SAR IMAGES VIA SEMANTIC SEGMENTATION

[He, Wenjing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Song, Hongjun](#), Aerospace Information Research Institute, Chinese Academy of Sciences,

China [Yao, Yuanyuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Jia, Hongying](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE2.R9.3: SEGMENTATION OF SAR IMAGES BASED ON THE OPTIMAL LEVEL SETS USING CWOA

[Luo, Shiyu](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China

WE2.R9.4: DOMAIN ADAPTATION FOR SEMANTIC SEGMENTATION OF AERIAL IMAGERY USING CYCLE-CONSISTENT ADVERSARIAL NETWORKS

[Schenkel, Fabian](#), Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, Germany [Middelmann, Wolfgang](#), Fraunhofer Institute of Optronics, System Technologies and Image Exploitation, Germany

WE2.R9.5: INSTANCE SEGMENTATION OF BUILDINGS USING KEYPOINTS

[Li, Qingyu](#), Technical University of Munich, Germany [Mou, Lichao](#), German Aerospace Center, Germany [Hua, Yuansheng](#), German Aerospace Center, Germany [Sun, Yao](#), German Aerospace Center, Germany [Jin, Pu](#), Technical University of Munich, Germany [Shi, Yilei](#), Technical University of Munich, Germany [Zhu, Xiaoxiang](#), German Aerospace Center, Germany

WE2.R9.6: UNSUPERVISED SEGMENTATION OF MULTIOLOOK COMPACT POLARIMETRIC SAR DATA BASED ON COMPLEX WISHART DISTRIBUTION

[Ghanbari, Mohsen](#), University of Waterloo, Canada [Clausi, David A.](#), University of Waterloo, Canada [Xu, Linlin](#), University of Waterloo, Canada [Jiang, Mingzhe](#), University of Waterloo, Canada

WE2.R9.7: HIGH-ORDER TRIPLET CRF-PCANET FOR UNSUPERVISED SEGMENTATION OF SAR IMAGE

[Zhang, Peng](#), National Laboratory of Radar Signal Processing, Xidian University, China [Boudaren, Mohamed El Yazid](#), School of Electronic Engineering, Ecole Militaire Polytechnique, Algeria [Jiang, Yinyin](#), National Laboratory of Radar Signal Processing, Xidian University, China [Song, Wanying](#), School of Electronic Engineering, Xidian University, China [Li, Beibei](#), National Laboratory of Radar Signal Processing, Xidian University, China [Li, Ming](#), National Laboratory of Radar Signal Processing, Xidian University, China [Wu, Yan](#), School of Electronic Engineering, Xidian University, China

WE2.R9.8: DBC: DEEP BOUNDARIES COMBINATION FOR FARMLAND BOUNDARY DETECTION BASED ON UAV IMAGERY

[Li, Xirong](#), Wuhan University, China [Xu, Xin](#), Wuhan University, China [Yang, Rui](#), Wuhan University, China [Pu, Fangling](#), Wuhan University, China

WE2.R9.9: SINGLE IMAGE CLOUD DETECTION VIA MULTI-IMAGE FUSION

[Workman, Scott](#), DZYNE Technologies, United States [Rafique, M. Usman](#), University of Kentucky, United States [Blanton, Hunter](#), University of Kentucky, United States [Greenwell, Connor](#), University of Kentucky, United States [Jacobs, Nathan](#), University of Kentucky, United States

WE2.R9.10: PANCHROMATIC IMAGE LAND COVER CLASSIFICATION VIA DCNN WITH UPDATING ITERATION STRATEGY

[Hou, Biao](#), Xidian University, China [Liu, Yangfei](#), Xidian University, China [Rong, Tuotuo](#), Xidian University, China [Ren, Bo](#), Xidian University, China [Xiang, Zijuan](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Wang, Shuang](#), Xidian University, China

WE2.R9.11: DO DEEP LEARNING MODELS GENERALIZE TO OVERHEAD IMAGERY FROM NOVEL GEOGRAPHIC LOCATIONS? THE XGD BENCHMARK PROBLEM

[Huang, Bohao](#), Duke University, United States [Bradbury, Kyle](#), Duke University, United States [Collins, Leslie](#), Duke University, United States [Malof, Jordan](#), Duke University, United States

WE2.R10 - Remote Sensing Wednesday, September 30, 07:30 - 09:30 • Room 10
for Forest and Vegetation
Structure, Health and Growth II

WE2.R10.1: ESTIMATION OF NITROGEN IN THE SOIL OF BALSA TREES IN ECUADOR USING UNMANNED AERIAL VEHICLES

[Alvarez, Cesar](#), Universidad Politecnica Salesiana, Ecuador [Quintana, Joselin](#), Universidad Politecnica Salesiana, Ecuador [Tituana, Karen](#), Universidad Politecnica Salesiana, Ecuador [Teodoro, Ana](#), University of Porto, Portugal

WE2.R10.2: EXTENDING STOCHASTIC RADIATIVE TRANSFER THEORY TO SIMULATE BRF OVER FORESTS CONTAINING TREES WITH HETEROGENEOUS DAMAGED FOLIAGE

[Li, Xiaoyao](#), Beijing Forestry University, China [Huang, Huaguo](#), Beijing Forestry University, China [Shabanov, Nikolay](#), Russian Academy of Sciences, Russia [Yan, Kai](#), China University of Geosciences, China

WE2.R10.3: NORMALIZED PROJECTED RED & SWIR (NPRS): A NEW VEGETATION INDEX FOR FOREST HEALTH ESTIMATION AND ITS APPLICATION ON SPRUCE BARK BEETLE ATTACK DETECTION

[Huo, Langning](#), Swedish University of Agricultural Sciences, Sweden [Lindberg, Eva](#), Swedish University of Agricultural Sciences, Sweden [Persson, Henrik](#), Swedish University of Agricultural Sciences, Sweden

WE2.R10.4: ANALYZING LEAF CLUMPING EFFECT OF INDIVIDUAL TREES BASED ON MODELED REALISTIC STRUCTURE

[Li, Weihua](#), Beijing Normal University, China [Mu, Xihan](#), Beijing Normal University, China [Li, Linyuan](#), Beijing Normal University, China

WE2.R10.5: FOREST FLOWS - REAL TIME MONITORING OF WATER QUANTITY AND QUALITY SPATIO-TEMPORAL DYNAMICS IN PLANTED FORESTS

[Meason, Dean](#), Scion (NZ Forest Research Institute), New Zealand [Matson, Amanda](#), Thünen-Institut, Germany [Baillie, Brenda](#), Scion (NZ Forest Research Institute), New Zealand [Moller, Delwyn](#), University of Auckland, New Zealand [Dudley, Bruce](#), National Institute of Water and Atmospheric Research, New Zealand [Srinivasan, MS](#), National Institute of Water and Atmospheric Research, New Zealand [Rajanayaka, Channa](#), National Institute of Water and Atmospheric Research, New Zealand [Zammit, Christian](#), National Institute of Water and Atmospheric Research, New Zealand [White, Donald](#), Whitegum Forest and Natural Resources, Australia

WE2.R10.6: ARE HIGH SEVERITY FIRES INCREASING IN SOUTHERN AUSTRALIA?

[Tran, Bang Nguyen](#), University of Melbourne, Australia [Tanase, Mihai](#), National Institute for Research and Development in Forestry "Marin Dracea", Romania [Bennett, Lauren T.](#), University of Melbourne, Australia [Aponte, Cristina](#), University of Melbourne, Australia

WE2.R10.7: A FUEL MOISTURE CONTENT MONITORING METHODOLOGY BASED ON OPTICAL REMOTE SENSING

[Li, Fan](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Zhang, Cunjie](#), China Meteorological Administration, China [Cheng, Yuan](#), University of Electronic Science and Technology of China, China [Li, Yuzhen](#), ChengDu Software Industry Development Center, China [He, Lei](#), Chengdu University of Information Technology, China

WE2.R10.8: MAPPING SURFACE FUEL LOADINGS OF FORESTS USING STRATIFIED RANDOM SAMPLING AND GEOSTATISTICAL ANALYSIS DERIVED DATA

[Lin, Chinsu](#), National Chiayi University, Taiwan [Ma, Siao-En](#), National Chiayi University, Taiwan

WE2.R10.9: FORECASTING VEGETATION HEALTH IN THE MENA REGION BY PREDICTING VEGETATION INDICATORS WITH MACHINE LEARNING MODELS

[Perera, Sachi](#), Computational and Data Sciences Graduate Program, United States [Li, Wenzhao](#), Computational and Data Sciences Graduate Program, United States [Linstead, Erik](#), Chapman University, United States [El-Askary, Hesham Elaskary](#), Center of Excellence of Earth Observations and Modeling, United States

WE2.R10.10: SIMULATING AIRBORNE FULL-WAVEFORM LIDAR DATA IN VARYING MULTILAYERD FOREST THROUGH THE DART MODEL

[Zhu, Xiao](#), Beijing Normal University, China [Song, Jinling](#), Beijing Normal University, China [Yang, Lei](#), Beijing Normal University, China [Wang, Xin](#), Beijing Normal University, China

WE2.R10.11: DOMINANT TREES ANALYSIS USING UAV LIDAR AND PHOTOGRAMMETRY

[Liu, Qingwang](#), Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, China [Li, Shiming](#), Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, China [Tian, Xin](#), Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, China [Fu, Liyong](#), Institute of Forest Resource Information Techniques, Chinese Academy of Forestry, China

WE2.R11 - Remote Sensing for Crop Monitoring, Mapping and Classification III Wednesday, September 30, 07:30 - 09:30 • Room 11

WE2.R11.1: MAPPING RICE PLANTING AREA USING MULTI-TEMPORAL QUAD-POL RADARSAT-2 DATASETS AND RANDOM FOREST ALGORITHM

[He, Ze](#), University of Electronic Science and Technology of China, China [Li, Shihua](#), University of Electronic Science and Technology of China, China [Zhai, Pengfei](#), University of Electronic Science and Technology of China, China [Deng, Yuchuan](#), University of Electronic Science and Technology of China, China

WE2.R11.2: SCOPE, EXTENT, AND CHALLENGES OF AN AUTOMATED GLOBAL CROP CLASSIFICATION MODEL

[Randhawa, Sukanya](#), IBM Research India, India [Padmanaban, Manikandan](#), IBM Research India, India [Devi, UmaMaheswari](#), IBM Research India, India

WE2.R11.3: ASSESSMENT OF CLOUD COVER IN SENTINEL-2 DATA USING RANDOM FOREST CLASSIFIER

[Nevavuori, Petteri](#), Mtech Digital Solutions Oy, Finland [Lipping, Tarmo](#), Tampere University, Finland [Narra, Nathaniel](#), Tampere University, Finland [Linna, Petri](#), Tampere University, Finland

WE2.R11.4: USE OF REMOTE SENSING SATELLITE IMAGES IN RICE AREA MONITORING SYSTEM OF BANGLADESH

[Kalpoma, Kazi A.](#), Ahsanullah University of Science and Technology, Bangladesh [Ali, Rumman](#), Ahsanullah University of Science and Technology, Bangladesh [Rahman, Ashiqur](#), Ahsanullah University of Science and Technology, Bangladesh [Islam, Ashraful](#), Ahsanullah University of Science and Technology, Bangladesh

WE2.R11.5: AUTUMN CROP MAPPING BASED ON DEEP LEARNING METHOD DRIVEN BY HISTORICAL LABELLED DATASET

[Zhu, Shuang](#), Beijing Polytechnic College, China [Zhang, Jinshui](#), Beijing Normal University, China [Shuai, Guanyuan](#), Michigan State University, United States [Liu, Hongli](#), Beijing Normal University, China [Zhang, Feng](#), Beijing Normal University, China [Dong, Zheng](#), Beijing Vocational Transportation College, China

WE2.R11.6: DEVELOP LARGE-AREA AUTUMN CROP TYPE PRODUCT USING A DEEP LEARNING STRATEGY

[Xu, Qing](#), Beijing Normal University, China [Zhang, Jinshui](#), Beijing Normal University, China [Zhang, Feng](#), Beijing Normal University, China [Zhu, Shuang](#), Beijing Polytechnic College, China

WE2.R11.7: SOIL NUTRIENTS PREDICTION USING REMOTE SENSING DATA IN WESTERN INDIA: AN EVALUATION OF MACHINE LEARNING MODELS

[Kaur, Gunkirat](#), Indian Institute of Information Technology Delhi, India [Das, Kamal](#), IBM Research India, India [Hazra, Jagabondhu](#), IBM Research India, India

WE2.R11.8: USE NIGHT TIME LIGHT REMOTE SENSING TO DISCOVER DRAGON FRUIT PLANTATIONS IN VIETNAM

[Wang, Ruirui](#), Beijing Forestry University, China [Shi, Wei](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Jiang, Huiping](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE2.R11.9: YIELD AND COMMERCIAL CANE SUGAR ESTIMATION FOR SUGARCANE IN THAILAND - A CASE STUDY

[Guruprasad, Ranjini B.](#), IBM Research India, India [Dasgupta, Kalyan](#), IBM Research India, India [Sriroth, Klanarong](#), Mitr Phol, Thailand [Chattanrassamee, Panyawat](#), Mitr Phol, Thailand [Khripet, Noppadon](#), National Science and Technology Development Agency (NSTDA),

Thailand

[WE2.R11.10: JOINT ESTIMATION OF GRASSLAND LEAF AREA INDEX AND LEAF CHLOROPHYLL CONTENT FROM UNMANNED AERIAL VEHICLE HYPERSPECTRAL DATA](#)

[Zhu, Xiaohua](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Chuanrong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Tang, Lingli](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Yang, Qian](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhao, Yongguang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE2.R12 - Advances in Regression, Super-resolution and Denoising

Wednesday, September 30, 07:30 - 09:30 • Room 12

[WE2.R12.1: REMOTE SENSING IMAGE SUPER-RESOLUTION VIA ENHANCED BACK-PROJECTION NETWORKS](#)

[Dong, Xiaoyu](#), College of Information and Communication Engineering, Harbin Engineering University, China [Xi, Zhihong](#), College of Information and Communication Engineering, Harbin Engineering University, China [Sun, Xu](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Yang, Lina](#), Key Laboratory of Digital Earth Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China

[WE2.R12.2: SURE BASED CONVOLUTIONAL NEURAL NETWORKS FOR HYPERSPECTRAL IMAGE DENOISING](#)

[Nguyen, Han Van](#), University of Iceland, Iceland [Úlfarsson, Magnús Örn](#), University of Iceland, Iceland [Sveinsson, Jóhannes Rúnar](#), University of Iceland, Iceland

[WE2.R12.3: LOCAL SPATIAL-SPECTRAL CORRELATION BASED MIXTURES OF FACTOR ANALYZERS FOR HYPERSPECTRAL DENOISING](#)

[Zhao, Bin](#), University of Iceland, Iceland [Sveinsson, Johannes R.](#), University of Iceland, Iceland [Ulfarsson, Magnus O.](#), University of Iceland, Iceland [Chanussot, Jocelyn](#), Univ. Grenoble Alpes; University of Iceland, France

[WE2.R12.4: JOINT MIXED-NOISE REMOVAL AND COMPRESSED SENSING RECONSTRUCTION OF HYPERSPECTRAL IMAGES VIA CONVEX OPTIMIZATION](#)

[Takeyama, Saori](#), Tokyo Institute of Technology, Japan [Ono, Shunsuke](#), Tokyo Institute of Technology, Japan

[WE2.R12.5: ONLINE PREDICTION OF DERIVED REMOTE SENSING IMAGE TIME SERIES: AN AUTONOMOUS MACHINE LEARNING APPROACH](#)

[Das, Monidipa](#), Nanyang Technological University, Singapore

[WE2.R12.6: URBAN SURFACE SIMULATION THROUGH IMAGE-TO-IMAGE TRANSLATION DEEP LEARNING ALGORITHM USING OPTICAL AERIAL IMAGERY](#)

[Das, Soumya K](#), Central University of Jharkhand, India [P.S. Prakash](#), Indian Institute of Technology Kharagpur, India [Pandey, A.C.](#), Central University of Jharkhand, India [H.A. Bharath](#), Indian Institute of Technology Kharagpur, India

[WE2.R12.7: INTER-SENSOR REMOTE SENSING IMAGE ENHANCEMENT FOR OPERATIONAL SENTINEL-2 AND SENTINEL-3 DATA PRODUCTS](#)

[Fernandez, Rafael](#), University Jaume I, Spain [Fernandez-Beltran, Ruben](#), University Jaume I, Spain [Pla, Filiberto](#), University Jaume I, Spain

[WE2.R12.8: CORRECTION OF SEASONAL EFFECTS ON VIIRS DNB MONTHLY COMPOSITES BY USING STABLE LIT DATA AND REGRESSION CONVOLUTIONAL NEURAL NETWORK](#)

[Man Duc, Chuc](#), Chubu University, Japan [Hirakawa, Tsubasa](#), Chubu University, Japan [Fukui, Hiromichi](#), Chubu University, Japan

[WE2.R12.9: A NOVEL APPROACH FOR HYPERSPECTRAL IMAGE SUPERRESOLUTION USING SPECTRAL UNMIXING AND TRANSFER LEARNING](#)

[Patel, Jignesh](#), Dhirubhai Ambani Institute of Information and Communication Technology, India [Joshi, Manjunath](#), Dhirubhai Ambani Institute of Information and Communication Technology, India [Bhatt, Jignesh](#), Indian Institute of Information Technology Vadodara, India

WE2.R12.10: HYPERSPECTRAL IMAGES DENOISING BASED ON MIXTURES OF FACTOR ANALYZERS

[Zhao, Bin](#), University of Iceland, Iceland [Sveinsson, Johannes R.](#), University of Iceland, Iceland [Ulfarsson, Magnus O.](#), University of Iceland, Iceland [Chanussot, Jocelyn](#), Univ. Grenoble Alpes; University of Iceland, France

WE2.R12.11: TWO STAGE ESTIMATION PROCEDURE OF NON-LINEAR REGRESSION FUNCTIONS FOR SPATIALLY-DEPENDENT DATA

[Nishii, Ryuei](#), Nagasaki University, Japan [Tanaka, Shojiro](#), Hiroshima University of Economics, Japan

WE2.R13 - Recent Advances Wednesday, September 30, 07:30 - 09:30 • Room 13 in GNSS-Reflectometry: Cryospheric Applications and Novel Techniques

WE2.R13.1: POTENTIAL OF GNSS REFLECTOMETRY FOR FREEZE-THAW MONITORING: A STUDY OF TECHDEMOSAT-1 DATA

[Comite, Davide](#), Sapienza University, Italy [Dente, Laura](#), Tor Vergata University, Italy [Cenci, Luca](#), Sapienza University, Italy [Guerriero, Leila](#), Tor Vergata University, Italy [Colliander, Andrea S.](#), NASA Jet Propulsion Laboratory, United States [Pierdicca, Nazzareno](#), Sapienza University of Rome, Italy

WE2.R13.2: ANALYSIS OF GNSS-R COVERAGE BY A REGIONAL AIRCRAFT FLEET

[Linnabary, Ryan](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States [Ruf, Chris](#), University of Michigan, United States [Musko, Stephen](#), University of Michigan, United States [Moller, Delwyn](#), University of Auckland, United States

WE2.R13.3: ANALYSIS ON THE FEASIBILITY OF AIRBORNE GNSS-R RECEIVERS FOR WEATHER NOWCASTING AND TARGET DETECTION

[Perez, Adrian](#), Universitat Politècnica de Catalunya (UPC), Spain [Munoz-Martin, Joan Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain

WE2.R13.4: GNSS REFLECTOMETRY FROM SMARTPHONES: TESTING PERFORMANCE OF IN-BUILT ANTENNAS AND GNSS CHIPS

[Kurum, Mehmet](#), Mississippi State University, United States [Gurbuz, Ali](#), Mississippi State University, United States [Farhad, Md. Mehedi](#), Mississippi State University, United States

WE2.R13.5: A NOVEL BISTATIC SAR IMAGING ALGORITHM BASED ON GNSS TRANSMITTERS AND LOW-ORBIT RECEIVERS

[Qi, Xin](#), Harbin Institute of Technology, China [Zhang, Yun](#), Harbin Institute of Technology, China [Jiang, Yicheng](#), Harbin Institute of Technology, China [Zhang, Leiyu](#), Harbin Institute of Technology, China

WE2.R13.6: OUTLINE OF THE ESA HYDROGNSS GNSS REFLECTOMETRY SCOUT MISSION

[Unwin, Martin](#), Surrey Satellite Technology Ltd., United Kingdom [Pierdicca, Nazzareno](#), Electronics and Telecommunications, Sapienza University of Rome (SAP-DIET), Italy [Rautiainen, Kimmo](#), Finnish Meteorological Institute, Finland [Cardellach, Estel](#), Institut de Ciències de l'Espai (ICE-CSIC) Institut d'Estudis Espacials de Catalunya (IEEC), Spain [Foti, Giuseppe](#), National Oceanography Centre, United Kingdom [Blunt, Paul](#), University of Nottingham, United Kingdom [Guerriero, Leila](#), DICII, Tor Vergata University, Italy [Santi, Emanuele](#), Nello Carrara Institute of Applied Physics, Italy [Tossaint, Michel](#), European Space Agency (ESA-ESTEC) / EOP-ΦMP, Netherlands [Worsley, Elliott](#), Surrey Satellite Technology Ltd., United Kingdom

WE2.R13.7: THE GRSS STANDARD FOR GNSS-REFLECTOMETRY

[Carreno-Luengo, Hugo](#), University of Michigan (UM), United States [Camps, Adriano](#), Universitat Politècnica de Catalunya, Spain [Flouri, Nicolas](#), European Space Agency (ESA), Netherlands [Martin-Neira, Manuel](#), European Space Agency (ESA), Netherlands [Ruf, Chris](#),

University of Michigan (UM), United States [Wang, Tianlin](#), University of Michigan (UM), United States [Khalsa, Sirijodha](#), University of Colorado (UC), United States [Clarizia, Maria Paola](#), Deimos Space UK Ltd., United Kingdom [Reynolds, Jennifer](#), Deimos Space UK Ltd., United Kingdom [Johnson, Joel](#), The Ohio State University, United States [O'Brien, Andrew](#), The Ohio State University, United States [Galdi, Carmela](#), Università degli Studi del Sannio, Italy [di Biscegli, Maurizio](#), Università degli Studi del Sannio, Italy [Dielacher, Andreas](#), RUAG Space GmbH, Austria [Jales, Philip](#), Spire Global, United States [Unwin, Martin](#), Surrey Satellite Technology Ltd. (SSTL), United Kingdom [King, Lucinda](#), University of Surrey, United Kingdom [Foti, Giuseppe](#), National Oceanography Center (NOC), United Kingdom [Shah, Rashmi](#), California Institute of Technology, United States [Pascual, Daniel](#), Deimos Space UK Ltd., United Kingdom [Schreiner, Bill](#), University Corporation for Atmospheric Research (UCAR), United States [Asgarimehr, Milad](#), German Research Centre for Geosciences (GFZ), Germany [Wickert, Jens](#), German Research Centre for Geosciences (GFZ), Germany [Ribo, Semi](#), Institute of Space Sciences (ICE-CSIC/IEEC), Spain [Cardellach, Estel](#), Institute of Space Sciences (ICE-CSIC/IEEC), Spain

[WE2.R13.8: MONITORING GPS EIRP FOR CYGNSS LEVEL 1 CALIBRATION](#)

[Wang, Tianlin](#), University of Michigan, United States [Ruf, Christopher](#), University of Michigan, United States [Gleason, Scott](#), University Corporation for Atmospheric Research, United States [McKague, Darren](#), University of Michigan, United States [O'Brien, Andrew](#), The Ohio State University, United States [Block, Bruce](#), University of Michigan, United States

WE2.R14 - Data Management Wednesday, September 30, 07:30 - 09:30 • Room 14 and Education I

[WE2.R14.1: AN INSTITUTIONAL PARTNERSHIP MODEL TO PROVIDE UNDERGRADUATE STUDENTS REMOTE SENSING EDUCATION/RESEARCH EXPERIENCES USING NOVEL INEXPENSIVE LIDAR INSTRUMENTATION](#)

[Sharma, Nimmi](#), Central Connecticut State University, United States [Kabir, Amin](#), University of the Bahamas, Bahamas, The [Barnes, John](#), NOAA, United States

[WE2.R14.2: SAR/INSAR IMAGING GEODESY TRAINING CURRICULUM FOR SOLID EARTH SCIENTISTS](#)

[Rosen, Paul](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Meyer, Franz](#), University of Alaska Fairbanks, United States [Hensley, Scott](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Donnellan, Andrea](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Agram, Piyush](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Davis, Hilarie](#), Technology for Learning Consortium, United States [Bekaert, David](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Fattahi, Heresh](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Funning, Gareth](#), UC Riverside, United States

[WE2.R14.3: SERVICE-LEARNING: AN ENTRÉE TO INTRODUCE MINORITY STUDENTS TO REMOTE SENSING RESEARCH](#)

[Blake, Reginald](#), New York City College of Technology, United States [Liou-Mark, Janet](#), New York City College of Technology, United States [Norouzi, Hamidreza](#), New York City College of Technology, United States [Rivera, Julia](#), New York City College of Technology, United States [Rice, Marlon](#), Magnolia Tree Earth Center, United States

[WE2.R14.4: UNDERGRADUATE RESEARCH: INTERWEAVING EDUCATION AND RESEARCH THROUGH EXPLORATION ROBOTICS FOR CLOSE RANGE REMOTE SENSING](#)

[Beaudoin, Laurent](#), EPITA, France [Avanthey, Loica](#), EPITA, France

[WE2.R14.5: HOW DATABASES NOSQL HELPS TEACHING DATABASES, GEOMETRY, AND REMOTE SENSING SIMULTANEOUSLY](#)

[Baumann, Peter](#), Jacobs University | rasdaman GmbH, Germany

[WE2.R14.6: THE FRENCH LAND DATA AND SERVICES CENTER: THEIA](#)

[Baghdadi, Nicolas](#), INRAE, France [Sellé, Arnaud](#), CNES, France [Bazzi, Hassan](#), INRAE, France [Zribi, Mehrez](#), CNRS, France [Biagiotti, Isabelle](#), INRAE, France [Huynh, Frédéric](#), IRD, France

WE2.R14.7: ERROR AND UNCERTAINTY IN EARTH OBSERVATION VALUE CHAINS

[Siddiqi, Afireen](#), Massachusetts Institute of Technology, United States [Baber, Sheila](#), Massachusetts Institute of Technology, United States [de Weck, Olivier](#), Massachusetts Institute of Technology, United States [Durell, Chris](#), Labsphere Inc., United States

WE2.R14.8: DEVELOPMENT OF OPEN DATA CUBE TO FACILITATE DISASTER RISK REDUCTION

[Cheng, Ming-Chih](#), National Applied Research Laboratories, Taiwan [Chang, Li-Yu](#), National Applied Research Laboratories, Taiwan [Shih, I-Liang](#), National Applied Research Laboratories, Taiwan [Kawakita, Shirou](#), Japan Aerospace Exploration Agency, Japan [Chen, Bo](#), National Applied Research Laboratories, Taiwan [Liu, Cynthia](#), National Applied Research Laboratories, Taiwan [Lin, Hsi-Ching](#), National Applied Research Laboratories, Taiwan [Lin, Li-Ching](#), National Applied Research Laboratories, Taiwan

WE2.R15 - KOMPSAT and New Wednesday, September 30, 07:30 - 09:30 • Room 15 Space SAR Instruments and Constellations

WE2.R15.1: STATUS OF THE KOMPSAT-5 SAR MISSION, UTILIZATION AND FUTURE PLANS

[Lee, Sun-Gu](#), Korea Aerospace Research Institute, Korea (South) [Lee, Seung-Jae](#), Korea Aerospace Research Institute, Korea (South) [Kim, Heeseob](#), Korea Aerospace Research Institute, Korea (South) [Chea, Tea-Byeong](#), Korea Aerospace Research Institute, Korea (South) [Ryu, Dongryeol](#), University of Melbourne, Australia

WE2.R15.2: MULTI-TEMPORAL ASSESSMENT OF X-BAND SAR SOIL MOISTURE RETRIEVALS ACROSS GROWTH STAGES OF A DRYLAND WHEAT FIELD

[Ryu, Dongryeol](#), University of Melbourne, Australia [Tao, Liangliang](#), University of Melbourne, Australia [Western, Andrew](#), University of Melbourne, Australia [Lee, Sun-Gu](#), Korea Aerospace Research Institute, Australia

WE2.R15.3: INTERCOMPARISON OF X- AND C-BANDS ACTIVE MICROWAVE SOIL MOISTURE RETRIEVALS OVER DRYLAND WHEAT FIELDS

[Tao, Liangliang](#), University of Melbourne, Australia [Ryu, Dongryeol](#), University of Melbourne, Australia [Western, Andrew](#), University of Melbourne, Australia [Lee, Sun-Gu](#), Korea Aerospace Research Institute, Korea (South)

WE2.R15.4: IMPROVEMENT OF KOMPSAT-5 SEA SURFACE WIND WITH CORRECTION EQUATION RETRIEVAL AND APPLICATION

[Jang, Jae-Cheol](#), Seoul National University, Korea (South) [Park, Kyung-Ae](#), Seoul National University, Korea (South) [Yang, Dochul](#), Korea Aerospace Research Institute, Korea (South) [Lee, Sun-Gu](#), Korea Aerospace Research Institute, Korea (South)

WE2.R15.5: CHANGE DETECTION OF URBAN AREAS AFFECTED BY EARTHQUAKE USING KOMPSAT-5 DATA

[Park, Sang-Eun](#), Sejong University, Korea (South) [Lee, Sun-Gu](#), Korea Aerospace Research Institute, Korea (South)

WE2.R15.6: OPERATIONAL READINESS OF THE CAPELLA SPACE SAR SYSTEM

[Castelletti, Davide](#), Capella Space, United States [Farquharson, Gordon](#), Capella Space, United States [Stringham, Craig](#), Capella Space, United States [Eddy, Duncan](#), Capella Space, United States

WE2.R15.7: DEMONSTRATION OF THE FEDERATED SATELLITE SYSTEMS CONCEPT FOR FUTURE EARTH OBSERVATION SATELLITE MISSIONS

[Ruiz-de-Azua, Joan A.](#), Universitat Politècnica de Catalunya (UPC), Spain [Fernandez, Lara](#), Universitat Politècnica de Catalunya (UPC), Spain [Badia, Marc](#), Universitat Politècnica de Catalunya (UPC), Spain [Marton, Albert](#), Universitat Politècnica de Catalunya (UPC), Spain [Garzaniti, Nicola](#), Skolkovo Institute of Science and Technology (Skoltech), Russia [Calveras, Anna](#), Universitat Politècnica de Catalunya (UPC), Spain [Golkar, Alessandro](#), Skolkovo Institute of Science and Technology (Skoltech), Russia [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain

WE2.R15.8: THE LATEST STATUS OF OUR COMMERCIAL SMALL SYNTHETIC APERTURE RADAR SATELLITE CONSTELLATION

[Obata, Toshihiro](#), Synspecive, Japan [Arai, Motoyuki](#), Synspecive, Japan [Asada, Shoichiro](#), Synspecive, Japan [Imaizumi, Tomoyuki](#), Synspecive, Japan [Saito, Hirobumi](#), Synspecive, Japan [Shirasaka, Seiko](#), Keio University, Japan

WE2.R15.9: ICEYE MICROSATELLITE SAR CONSTELLATION STATUS UPDATE: EVALUATION OF FIRST COMMERCIAL IMAGING MODES

[Ignatenko, Vladimir](#), ICEYE Oy, Finland [Laurila, Pekka](#), ICEYE Oy, Finland [Radius, Andrea](#), ICEYE Oy, Finland [Lamentowski, Leszek](#), ICEYE Oy, Finland [Antropov, Oleg](#), ICEYE Oy, Finland [Muff, Darren](#), ICEYE Oy, Finland

WE2.R15.10: THE SAR-XL MULTI-APERTURE X AND L BAND SAR SYSTEM WITH DIGITAL BEAMFORMING AND ITS CORRESPONDING DUAL-BAND APPLICATIONS

[Tyc, George](#), UrtheCast Corporation, Canada [Grigorian, Michael](#), UrtheCast Corporation, Canada [Korus, Roger](#), UrtheCast Corporation, Canada [Al Sedairy, Talal](#), King Abdulaziz City for Science and Technology, Saudi Arabia [Alrashed, Abdullah](#), King Abdulaziz City for Science and Technology, Saudi Arabia [Alharbi, Mohammad](#), King Abdulaziz City for Science and Technology, Saudi Arabia

WE2.R16 - Processing and Imaging Techniques III Wednesday, September 30, 07:30 - 09:30 • Room 16

WE2.R16.1: DE-SPECKLING OF SYNTHETIC APERTURE RADAR USING DISCRETE FOURIER TRANSFORM

[Shitole, Sanjay](#), Usha Mittal Institute of Technology SNDT Women's University, India [Jain, Vijal](#), Usha Mittal Institute of Technology SNDT Women's University, India [Vanama, Venkata Sai Krishna](#), Centre for Urban Science and Engineering, Indian Institute of Technology Bombay, India

WE2.R16.2: COMPARATIVE ANALYSIS BETWEEN OPTICAL AND FUSED IMAGE WITH SAR

[Aslam, Khusharrah](#), Institute of Space Technology, Pakistan [Khalil, Rao Zahid](#), Institute of Space Technology, Pakistan [Haq, Saad](#), Institute of Space Technology, Pakistan [Ahmed, Salman](#), University of Karachi, Pakistan

WE2.R16.3: REMOVAL OF STAGGERED SAR AMBIGUITY IN LOW-OVERSAMPLING BY DEEP LEARNING

[Wu, Ning](#), University of Electronic Science and Technology of China, China [Xu, Mingming](#), Beijing Institute of Spacecraft System Engineering, China [Li, Kun](#), Beijing Institute of Spacecraft System Engineering, China [Liu, Zhe](#), University of Electronic Science and Technology of China, China

WE2.R16.4: ASSESSING PERFORMANCE OF MULTITEMPORAL SAR IMAGE DESPECKLING FILTERS VIA A BENCHMARKING TOOL

[Di Martino, Gerardo](#), University of Napoli, Italy [Di Simone, Alessio](#), University of Napoli, Italy [Iodice, Antonio](#), University of Napoli, Italy [Riccio, Daniele](#), University of Napoli, Italy [Ruello, Giuseppe](#), University of Napoli, Italy

WE2.R16.5: METHODOLOGY FOR LAND MAPPING OF AMAPA STATE - A SPECIAL CASE OF AMAZON RADIOGRAPHY PROJECT

[Filho, Antonio](#), São Paulo State University - UNESP, Brazil [Borba, Philipe](#), University of Brasilia - UnB, Brazil

WE2.R16.6: A MODIFIED EXTENDED WAVENUMBER-DOMAIN ALGORITHM FOR ULTRA-HIGH RESOLUTION SPACEBORNE SPOTLIGHT SAR DATA PROCESSING

[Gao, Yao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liang, Da](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Fang, Tingzhu](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhou, Zi-Xuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Heng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Robert](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

WE2.R16.7: RECURRENT DEEP LEARNING FOR RICE FIELDS DETECTION FROM SAR IMAGES

[Wu, Meng-Che](#), National Space Organization, Taiwan [Alkhaleefah, Mohammad](#), National Taipei University of Technology, Taiwan [Chang, Lena](#), National Taiwan Ocean University, Taiwan [Chang, Yang-Lang](#), National Taipei University of Technology, Taiwan [Shie, Ming-Hwang](#), National Space Organization, Taiwan [Liu, Shian-Jing](#), National Space Organization, Taiwan [Chang, Wen-Yen](#), National Dong Hwa University, Taiwan

WE2.R16.8: RADIOMETRIC CORRECTION OF DUAL-POLARIZATION SAR DATA OVER STEEP TERRAIN

[Luo, Shiyu](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China

WE2.R16.9: AN IMAGING COMPENSATION SCHEME FOR CORRECTING IONOSPHERIC EFFECT ON HIGH-RESOLUTION SPACEBORNE P-BAND SAR

[Liu, Yuqing](#), Beihang University, China [Chen, Jie](#), Beihang University, China [Wang, Pengbo](#), Beihang University, China [Zeng, Hongcheng](#), Beihang University, China [Yang, Wei](#), Beihang University, China

WE2.R16.10: AMPLITUDE AND PHASE ERROR CORRECTION METHOD FOR ARRAY SAR PROCESSED IN TIME DOMAIN

[Dong, Yifan](#), Inner Mongolia University of Technology, China [Li, Guowei](#), Inner Mongolia University of Technology, China [Tan, Weixian](#), Inner Mongolia University of Technology, China [Huang, Pingping](#), Inner Mongolia University of Technology, China [Xu, Wei](#), Inner Mongolia University of Technology, China

WE2.R16.11: INTERRUPTED FMCW SAR IMAGING VIA SPARSE RECONSTRUCTION

[Liu, Kang](#), Institute of Electronics, Chinese Academy of Sciences, China [Yu, Weidong](#), Institute of Electronics, Chinese Academy of Sciences, China

WE2.R16.12: A SIMULATION STUDY TO EVALUATE THE PERFORMANCE OF THE CAUCHY PROXIMAL OPERATOR IN DESPECKLING SAR IMAGES OF THE SEA SURFACE

[Karakus, Oktay](#), Visual Information Lab, University of Bristol, United Kingdom [Rizaev, Igor](#), Visual Information Lab, University of Bristol, United Kingdom [Achim, Alin](#), Visual Information Lab, University of Bristol, United Kingdom

WE2.R17 - UAV and Airborne Platforms Applications I Wednesday, September 30, 07:30 - 09:30 • Room 17

WE2.R17.1: USE OF DRONES AND SATELLITE IMAGES TO ASSESS THE HEALTH OF DATE PALM TREES

[Al-Mulla, Yaseen](#), Sultan Qaboos University, Oman [Al-Mulla, Yaseen](#), Sultan Qaboos University, Oman

WE2.R17.2: VOLUNTEERED REMOTE SENSING USING HANDHELD CAMERAS IN A PASSENGER AIRCRAFT

[Wang, Chisheng](#), Shenzhen University, China [Wang, Yongquan](#), Shenzhen University, China [Hu, Zhongwen](#), Shenzhen University, China [Liu, Peng](#), Southern University of Science and Technology, China

WE2.R17.3: RESEARCH ON MECHANISM AND PROCESS OF THE SHUICHENG LANDSLIDE IN GUIZHOU BASED ON UAV IMAGES

[Jiao, Qisong](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Jiang, Wenliang](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Li, Qiang](#), Institute of Crustal Dynamics, China Earthquake Administration, China

WE2.R17.4: VINEYARD CLASSIFICATION USING MACHINE LEARNING TECHNIQUES APPLIED TO RGB-UAV IMAGERY

[Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Adão, Telmo](#), University of Trás-os-Montes e Alto Douro, Portugal [Hruska, Jonas](#), University of Trás-os-Montes e Alto Douro, Portugal [Guimarães, Nathalie](#), University of Trás-os-Montes e Alto Douro, Portugal [Marques, Pedro](#), University of Trás-os-Montes e Alto Douro, Portugal [Peres, Emanuel](#), University of Trás-os-Montes e Alto Douro, Portugal [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

[WE2.R17.5: IMAGE ANALYSIS OF A SEA TURTLE NESTING BEACH USING UNMANNED AERIAL VEHICLES \(UAVS\)](#)

[Escobar-Flores, Jonathan G.](#), IPN, Mexico [Sandoval, Sarahi](#), IPN CONACYT, Mexico [Sosa-Cornejo, Ingmar](#), Universidad Autonoma de Sinaloa, Mexico

[WE2.R17.6: HIGH-RESOLUTION UAV MAPPING FOR INVESTIGATING EELGRASS BEDS ALONG THE WEST COAST OF NORTH AMERICA](#)

[Yang, Bo](#), University of Central Florida, United States [Hawthorne, Timothy](#), University of Central Florida, United States [Searson, Hunter](#), University of Central Florida, United States [Duffy, Emmett](#), Smithsonian Institution, United States

[WE2.R17.7: DUCK NEST DETECTION THROUGH REMOTE SENSING](#)

[Helvey, Matthew](#), Rochester Institute of Technology, United States [Ryckman, Mason](#), University of North Dakota, United States [Ellis-Felege, Susan](#), University of North Dakota, United States [Van Aardt, Jan](#), Rochester Institute of Technology, United States [Salvagio, Carl](#), Rochester Institute of Technology, United States

[WE2.R17.8: DETECTION OF SUB-PIXEL PLASTIC ABUNDANCE ON WATER SURFACES USING AIRBORNE IMAGING SPECTROSCOPY](#)

[Hueni, Andreas](#), University of Zurich, Switzerland [Bertschi, Sonja](#), University of Zurich, Switzerland

[WE2.R17.9: PLASTIC LITTER PROJECT 2019: EXPLORING THE DETECTION OF FLOATING PLASTIC LITTER USING DRONES AND SENTINEL 2 SATELLITE IMAGES](#)

[Topouzelis, Konstantinos](#), Department of Marine Sciences, University of the Aegean, Greece [Papageorgiou, Dimitris](#), Department of Marine Sciences, University of the Aegean, Greece [Karagaitanakis, Alexandros](#), Department of Marine Sciences, University of the Aegean, Greece [Papakonstantinou, Apostolos](#), Department of Marine Sciences, University of the Aegean, Greece [Arias Ballesteros, Manuel](#), ARGANS, France

[WE2.R17.10: CO-OBSERVATION AND ANALYSIS OF UAV AND MULTISPECTRAL REMOTE SENSING](#)

[Sun, Yishan](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China [Li, Lei](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China [Li, Xiaojie](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China

[WE2.R17.11: IMPLEMENTING DRONE MAPPING ALONG THE US WEST COAST FOR EELGRASS MEADOW EXTENT AND DYNAMICS](#)

[Searson, Hunter](#), University of Central Florida, United States [Yang, Bo](#), University of Central Florida, United States [Hawthorne, Timothy](#), University of Central Florida, United States

[WE2.R17.12: CURRENT STATUS OF NEON'S AOP](#)

[Goulden, Tristan](#), National Ecological Observatory Network, Battelle, United States [Hass, Bridget](#), National Ecological Observatory Network, Battelle, United States [Musinsky, John](#), National Ecological Observatory Network, Battelle, United States [Shrestha, Alok](#), National Ecological Observatory Network, Battelle, United States

WE2.R18 - Deep and Semantic Learning for Object Detection

Wednesday, September 30, 07:30 - 09:30 • Room 18

[WE2.R18.1: UNDERWATER FIELD EQUIPMENT OF A NETWORK OF LANDMARKS OPTIMIZED FOR AUTOMATIC DETECTION BY AI](#)

[Beaudoin, Laurent](#), EPITA, France [Avanthey, Loica](#), EPITA, France

[WE2.R18.2: UNDERWATER CALIBRATION IN NEAR REAL TIME: FOCUS ON DETECTION OPTIMIZED BY AI AND SELECTION OF CALIBRATION PATTERNS](#)

[Avanthey, Loica](#), EPITA, France [Beaudoin, Laurent](#), EPITA, France

[WE2.R18.3: AUTOMATED DETECTION OF MANHOLE COVERS IN MLS POINT CLOUDS USING A DEEP LEARNING APPROACH](#)

[Qing, Liyuan](#), University of Waterloo, Canada [Yang, Ke](#), University of Waterloo, Canada [Tan, Weikai](#), University of Waterloo, Canada [Li, Jonathan](#), University of Waterloo, Canada

WE2.R18.4: A WEAKLY SUPERVISED DEEP LEARNING APPROACH FOR PLANT CENTER DETECTION AND COUNTING

[Karami, Azam](#), Purdue University, United States [M. Crawford, Melba](#), Purdue University, United States [J. Delp, Edward](#), Purdue University, United States

WE2.R18.5: UAV BASED REMOTE SENSING FOR TASSEL DETECTION AND GROWTH STAGE ESTIMATION OF MAIZE CROP USING MULTISPECTRAL IMAGES

[Kumar, Ajay](#), Indian Institute of Technology Hyderabad Telangana India, India [Taparia, Mahesh](#), Indian Institute of Technology Hyderabad Telangana India, India [Rajalakshmi, P.](#), Indian Institute of Technology Hyderabad Telangana India, India [Guo, Wei](#), International Field Phenomics Research Laboratory, Institute for Sustainable Agro-ecosystem Services, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, Japan [Naik, Balaji](#), Professor Jayashankar Telangana State Agricultural University (PJTSAU), India [Marathi, Balram](#), Professor Jayashankar Telangana State Agricultural University (PJTSAU), India [Desai, Uday](#), Indian Institute of Technology Hyderabad Telangana India, India

WE2.R18.6: ACCURATE DETECTION OF HISTORICAL BUILDINGS USING AERIAL PHOTOGRAPHS AND DEEP TRANSFER LEARNING

[Xiong, Yongzhu](#), Jiaying University, China [Chen, Qi](#), University of Hawaii at Manoa, United States [Zhu, Mingyong](#), Jiaying University, China [Zhang, Yu](#), Jiaying University, China [Huang, Kekun](#), Jiaying University, China

WE2.R18.7: CENTER PIVOT CLASSIFICATION WITH DEEP RESIDUAL U-NET

[de Albuquerque, Anesmar Olino](#), Universidade de Brasília, Brazil [de Bem, Pablo Pozzobon](#), Universidade de Brasília, Brazil [de Moura, Rebeca dos Santos](#), Universidade de Brasília, Brazil [Ferreira de Carvalho, Osmar Luiz](#), Universidade de Brasília, Brazil [Guimarães Ferreira, Pedro Henrique](#), Universidade de Brasília, Brazil [Silva, Cristiano Rosa](#), Universidade de Brasília, Brazil [Gomes, Roberto Arnaldo Trancoso](#), Universidade de Brasília, Brazil [Guimarães, Renato Fontes](#), Universidade de Brasília, Brazil [Carvalho Júnior, Osmar Abilio](#), Universidade de Brasília, Brazil

WE2.R18.8: CONVOLUTIONAL NEURAL NETWORK FOR DETECTION OF RESIDENTIAL PHOTOVOLTAIC SYSTEMS IN SATELLITE IMAGERY

[Moraguez, Matthew](#), Massachusetts Institute of Technology, United States [Trujillo, Alejandro](#), Massachusetts Institute of Technology, United States [de Weck, Olivier](#), Massachusetts Institute of Technology, United States [Siddiqi, Afreen](#), Massachusetts Institute of Technology, United States

WE2.R18.9: SAR EDDY DETECTION USING MASK-RCNN AND EDGE ENHANCEMENT

[Zhang, Di](#), University of Hamburg, Germany [Gade, Martin](#), University of Hamburg, Germany [Zhang, Jianwei](#), University of Hamburg, Germany

WE2.R18.10: IMPROVING THE PERFORMANCE OF SEABIRDS DETECTION COMBINING MULTIPLE SEMANTIC SEGMENTATION MODELS

[Liu, Chunxiu](#), Shandong University of Science and Technology, China [Ming, Yanfang](#), Shandong University of Science and Technology, China [Zhu, Jinshan](#), Shandong University of Science and Technology, China

WE2.R18.11: DEEP NETWORKS UNDER BLOCK-LEVEL SUPERVISION FOR PIXEL-LEVEL CLOUD DETECTION IN MULTI-SPECTRAL SATELLITE IMAGERY

[Chen, Wei](#), School of Remote Sensing and Information Engineering, Wuhan University, China [Li, Yansheng](#), School of Remote Sensing and Information Engineering, Wuhan University, China [Zhang, Yongjun](#), School of Remote Sensing and Information Engineering, Wuhan University, China [Hao, Xiaolong](#), Beijing Tracking and Communication Technology Research Institute, China

WE2.R19 - Global
Precipitation Measurement
Mission with Emphasis on Coastal Observations

WE2.R19.1: THE GLOBAL PRECIPITATION MEASUREMENT (GPM) MISSION

[Skofronick-Jackson, Gail](#), NASA Headquarters, United States

WE2.R19.2: PRELIMINARY ANALYSIS OF EXPERIMENTAL PRODUCT FOR THE NEW SCAN PATTERN OF GPM/DPR

[Seto, Shinta](#), Nagasaki University, Japan [Kubota, Takuji](#), Japan Aerospace Exploration Agency, Japan [Masaki, Takeshi](#), Remote Sensing Technology Center of Japan, Japan [Takahashi, Nobuhiro](#), Nagoya University, Japan [Iguchi, Toshio](#), University of Maryland, United States

WE2.R19.3: ON THE OPTIMIZATION OF PARAMETERS IN THE GSMAP_GAUGE ALGORITHM

[Mega, Tomoaki](#), Osaka University, Japan [Ushio, Tomoo](#), Osaka University, Japan

WE2.R19.4: EVALUATION OF CLOUD LIQUID WATER DATABASE USING GLOBAL CLOUD-SYSTEM RESOLVING MODEL FOR GPM/DPR ALGORITHMS

[Kubota, Takuji](#), Japan Aerospace Exploration Agency, Japan [Satoh, Masaki](#), University of Tokyo, Japan [Masaki, Takeshi](#), Remote Sensing Technology Center of Japan, Japan [Iguchi, Toshio](#), University of Maryland, United States [Seto, Shinta](#), Nagasaki University, Japan [Nasuno, Tomoe](#), Japan Agency for Marine-Earth Science and Technology, Japan [Oki, Riko](#), Japan Aerospace Exploration Agency, Japan

WE2.R19.5: EVALUATION OF GPM-DPR GRAUPEL AND HAIL IDENTIFICATION ALGORITHM ON A GLOBAL SCALE

[Chandrasekar, V.](#), Colorado State University, United States [Le, Minda](#), Colorado State University, United States

WE2.R19.6: RECENT ADVANCES TO THE OPENSPP PARTICLE AND SCATTERING DATABASE

[Adams, Ian](#), NASA Goddard Space Flight Center, United States [Kuo, Kwo-Sen](#), University of Maryland, United States [Olson, William](#), University of Maryland - Baltimore College, United States [Clune, Thomas](#), NASA Goddard Space Flight Center, United States [Pelissier, Craig](#), Science Systems and Applications, Inc, United States [Loftus, Adrian](#), University of Maryland, United States [Schrom, Robert](#), Universities Space Research Association, United States

WE2.R19.8: DEVELOPMENT OF RAINFALL NORMALIZATION MODULE FOR GSMAP MICROWAVE IMAGERS AND SOUNDERS

[Yamamoto, Munehisa](#), Remote Sensing Technology Center of Japan, Japan [Kubota, Takuji](#), Japan Aerospace Exploration Agency, Japan

TH1.R1 - Soil Moisture II

Thursday, October 1, 05:00 - 07:00 • Room 1

TH1.R1.1: PREDICTING SOIL MOISTURE RETRIEVAL PERFORMANCE FOR THE NISAR MISSION

[Bringer, Alexandra](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Bindlish, Rajat](#), NASA Goddard Space Flight Center, United States

TH1.R1.2: SOIL MOISTURE RETRIEVAL USING SAR DERIVED VEGETATION DESCRIPTORS IN WATER CLOUD MODEL

[Bhogapurapu, Narayanarao](#), Microwave Remote Sensing Lab, Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, Mumbai-400076, India, India [Mandal, Dipankar](#), Microwave Remote Sensing Lab, Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, Mumbai-400076, India, India [Y.S., Rao](#), Microwave Remote Sensing Lab, Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, Mumbai-400076, India, India [Bhattacharya, Avik](#), Microwave Remote Sensing Lab, Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, Mumbai-400076, India, India

TH1.R1.3: PRELIMINARY STUDY OF CRAMER-RAO LOWER BOUND FOR SUBSURFACE SOIL MOISTURE ESTIMATION USING SOOP REFLECTOMETRY

[Boyd, Dylan](#), Mississippi State University, United States [Kurum, Mehmet](#), Mississippi State University, United States [Gurbuz, Ali](#), Mississippi State University, United States

TH1.R1.4: FULL-WAVE SIMULATIONS OF SCATTERING IN VEGETATION FOR MICROWAVE REMOTE SENSING OF SOIL MOISTURE

[Gu, Weihui](#), University of Michigan, United States [Tsang, Leung](#), University of Michigan, United States [Colliander, Andreas](#), California Institute of Technology, United States [Yueh, Simon](#), California Institute of Technology, United States

TH1.R1.5: ESTIMATING GLOBAL EVAPOTRANSPIRATION USING SMAP SURFACE AND ROOT-ZONE MOISTURE CONTENT

[Kim, Youngwook](#), United Arab Emirate University, United Arab Emirates [Park, Hotaek](#), JAMSTEC, Japan [Kimball, John](#), Numerical Terradynamic Simulation Group, United States [Colliander, Andreas](#), NASA Jet Propulsion Laboratory, United States [Johnson, Jesse](#), University of Montana, United States

TH1.R1.6: IRRIGATION MAPPING USING SENTINEL-1 TIME SERIES

[Bazzi, Hassan](#), INRAE, France [Baghdadi, Nicolas](#), INRAE, France [Ienco, Dino](#), INRAE, France [Zribi, Mehrez](#), CNRS, France [Belhouchette, Hatem](#), CIHEAM-IAMM, France

TH1.R1.7: ASSESSMENT OF THE TRIANGLE METHOD (T-VI) FOR DETECTION OF WATER LEAKS FROM AIRPLANE AND UAV

[Krapez, J.-C.](#), ONERA, France [Sanchis Muñoz, J.](#), Galileo Geosystems, Spain [Chatelard, C.](#), ONERA, France [Mazel, C.](#), Air Marine, France [Olichon, V.](#), Air Marine, France [Barba Polo, J.](#), Galileo Geosystems, Spain [Frederic, Y.M.](#), ONERA, France [Coiro, E.](#), ONERA, France [Carreira, D.](#), EDIA, Portugal [Carvalho, A.](#), EDIA, Portugal

TH1.R1.8: SMAP SOIL MOISTURE PRODUCT VALIDITY IN HETEROGENEOUS IRRIGATED REGIONS

[Worrall, George](#), University of Florida, United States [Judge, Jasmeet](#), University of Florida, United States [Barrett, Charles](#), University of Florida, United States

TH1.R1.9: SOIL MOISTURE ESTIMATION BASED ON THE AIEM FOR BARE AGRICULTURAL AREA

[Zhang, Xiang](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Tang, Xinming](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Gao, Xiaoming](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhao, Hui](#), National Geomatics Center of China, China [Li, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Chen, Qianfu](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

TH1.R1.10: COMPARISON OF SMAP RETRIEVAL SOIL MOISTURE LEVEL 2 PRODUCT WITH IN SITU MEASUREMENTS OVER CORN FIELDS IN CENTRAL MEXICO.

[Hernandez-Sanchez, Juan Carlos](#), Instituto Politécnico Nacional, Mexico [Monsiváis-Huerta, Alejandro](#), Instituto Politécnico Nacional, Mexico [Judge, Jasmeet](#), University of Florida, Mexico [Jiménez-Escalona, José Carlos](#), Instituto Politécnico Nacional, Mexico

TH1.R1.11: EVALUATION OF SMAP AND SMOS SOIL MOISTURE PRODUCTS USING DISTRIBUTED GROUND OBSERVATION NETWORK IN COLD AND ARID REGIONS IN THE NORTHWEST OF CHINA

[Wang, Zengyan](#), College of Environment and Planning, Henan University, China [Che, Tao](#), Northwest Institute of Eco-Environment and Resources, CAS, China [Dai, Liyun](#), Northwest Institute of Eco-Environment and Resources, CAS, China

TH1.R2 - Adaptive and Neural Methods for Object Recognition

Thursday, October 1, 05:00 - 07:00 • Room 2

TH1.R2.1: FUSION-ORIENTED AIRCRAFT DETECTION IN LARGE SCENE IMAGE BASED ON TINY DARKNET

[Wang, Jianing](#), Harbin Institute of Technology, China [Zhang, Ye](#), Harbin Institute of Technology, China

TH1.R2.2: COMPUTER VISION AIDED OPTICAL CORRELATOR FOR SAR TARGET RECOGNITION

[Meng, Xintao](#), Shanghai Jiao Tong University, China [Gao, Yesheng](#), Shanghai Jiao Tong University, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China

TH1.R2.3: FINE ACQUISITION OF VESSEL TRAINING DATA FOR MACHINE LEARNING FROM SENTINEL-1 SAR IMAGES ACCOMPANIED BY AIS INFORMATION

[Song, Juyoung](#), Seoul National University, Korea (South) [Kim, Duk-jin](#), Seoul National University, Korea (South)

TH1.R2.4: A TARGET DETECTION ALGORITHM OF NEURAL NETWORK BASED ON HISTOGRAM STATISTICS

[Jiang, Shuai](#), Beijing Institute of Spacecraft System Engineering, China [Pang, Yalong](#), Beijing Institute of Spacecraft System Engineering, China [Wang, Luyuan](#), Beijing Institute of Spacecraft System Engineering, China [Yu, Jiyang](#), Beijing Institute of Spacecraft System Engineering, China [Cheng, Bowen](#), Beijing Institute of Spacecraft System Engineering, China [Li, Zongling](#), Beijing Institute of Spacecraft System Engineering, China

TH1.R2.5: USING POLAR GRID FOR BUILDING EXTRACTION IN TERRESTRIAL LASER SCANNING DATA

[Chen, Maolin](#), Chongqing Jiaotong University, China [Tang, Feifei](#), Chongqing Jiaotong University, China [Pan, Jianping](#), Chongqing Jiaotong University, China

TH1.R2.6: ADAPTIVE FEATURE AGGREGATION NETWORK FOR OBJECT DETECTION IN REMOTE SENSING IMAGES

[Sun, Wenliang](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Zhang, Tianyang](#), Xidian University, China [Zhu, Peng](#), Xidian University, China [Gao, Li](#), State Key Laboratory of Geo-information Engineering, China [Tang, Xu](#), Xidian University, China [Liu, Bo](#), Xidian University, China

TH1.R2.7: FEATURE ENHANCED CENTERNET FOR OBJECT DETECTION IN REMOTE SENSING IMAGES

[Zhang, Tong](#), Beijing Institute of Technology, China [Wang, Guanqun](#), Beijing Institute of Technology, China [Zhuang, Yin](#), Peking University, China [Chen, He](#), Beijing Institute of Technology, China [Shi, Hao](#), Beijing Institute of Technology, China [Chen, Liang](#), Beijing Institute of Technology, China

TH1.R2.8: BUILDING DETECTION BASED ON RECTANGLE APPROXIMATION AND REGION GROWING

[Yin, Xueqi](#), Harbin Institute of Technology, China [Hao, XiaoLong](#), Beijing Tracking and Communication Technology Research Institute, China [Gao, Tong](#), Harbin Institute of Technology, China [Chen, Hao](#), Harbin Institute of Technology, China [Chen, Wen](#), Harbin Institute of Technology, China

TH1.R2.9: SHIP DETECTION WITH SAR BASED ON YOLO

[Jiang, Shaobin](#), University of Electronic Science and Technology of China, China [Zhu, Mingcang](#), Department of Natural Resources of Sichuan Province, China [He, Yong](#), Sichuan Research Institute for Eco-system Restoration & Geo-disaster Prevention, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China [Zhou, Fangrong](#), Yunnan Power Grid Co., Ltd, China [Zhou, Guoqing](#), Guilin University of Technology, China

TH1.R2.10: MULTI-ASPECT SAR TARGET RECOGNITION BASED ON EFFICIENTNET AND GRU

[Zhao, Pengfei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Huang, Lijia](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

TH1.R2.11: HYPERSPECTRAL TARGET DETECTION BY FRACTIONAL FOURIER TRANSFORM

[Zhao, Xiaobin](#), Beijing Institute of Technology, China [Li, Wei](#), Beijing Institute of Technology, China [Shan, Tao](#), Beijing Institute of Technology, China [Li, Lu](#), Beijing Information Science and Technology University, China [Tao, Ran](#), Beijing Institute of Technology, China

TH1.R2.12: TOPOGRAPHICAL FEATURE EXTRACTION USING MACHINE LEARNING TECHNIQUES FROM SENTINEL-2A IMAGERY

[Chaurasia, Kuldeep](#), Bennett University, India [Baipureddy, Neeraj](#), Bennett University, India [Burle, Dattu](#), Bennett University, India [Mishra, Vipul Kumar](#), Bennett University, India

TH1.R3 - Feature Reduction by
Neural and/or Spatial
Characterization I

Thursday, October 1, 05:00 - 07:00 • Room 3

TH1.R3.1: EDGE-DRIVEN OBJECT MATCHING FOR UAV IMAGES AND SATELLITE SAR

IMAGES

[Zhang, Ruixiang](#), Wuhan University, China [Xu, Fang](#), Wuhan University, China [Yu, Huai](#), Wuhan University, China [Yang, Wen](#), Wuhan University, China [Li, Heng-Chao](#), Southwest Jiaotong University, China

[TH1.R3.2: GRAPH-BASED MICRO-SEISMIC SIGNAL CLASSIFICATION WITH AN OPTIMISED FEATURE SPACE](#)

[Li, Jiangfeng](#), University of Strathclyde, United Kingdom [Yang, Cheng](#), York University, Canada [Stankovic, Vladimir](#), University of Strathclyde, United Kingdom [Stankovic, Lina](#), University of Strathclyde, United Kingdom [Pytharoulis, Stella](#), University of Strathclyde, United Kingdom

[TH1.R3.3: FEEDBACK NEURAL NETWORK BASED SUPER-RESOLUTION OF DEM FOR GENERATING HIGH FIDELITY FEATURES](#)

[Kubade, Ashish](#), International Institute of Information Technology Hyderabad, India [Sharma, Avinash](#), International Institute of Information Technology Hyderabad, India [Rajan, K. S.](#), International Institute of Information Technology Hyderabad, India

[TH1.R3.4: MANIFOLD LEARNING WITH HIGH DIMENSIONAL MODEL REPRESENTATIONS](#)

[Taşkın, Gülşen](#), İstanbul Technical University, Turkey [Camps-Valls, Gustau](#), Universitat de València, Spain

[TH1.R3.5: A TENSOR DECOMPOSITION METHOD FOR UNSUPERVISED FEATURE LEARNING ON SATELLITE IMAGERY](#)

[Dehghanpoor, Golnoosh](#), Washington University in St. Louis, United States [Frachetti, Michael](#), Washington University in St. Louis, United States [Juba, Brendan](#), Washington University in St. Louis, United States

[TH1.R3.6: SELF-SUPERVISED REMOTE SENSING IMAGE RETRIEVAL](#)

[Walter, Kane](#), University of New South Wales, Australia [Gibson, Matthew](#), University of New South Wales, Australia [Sowmya, Arcot](#), University of New South Wales, Australia

[TH1.R3.7: BAND-WISE MULTI-SCALE CNN ARCHITECTURE FOR REMOTE SENSING IMAGE SCENE CLASSIFICATION](#)

[Kang, Jian](#), Technische Universität Berlin, Germany [Demir, Begüm](#), Technische Universität Berlin, Germany

[TH1.R3.8: MULTIFRACTAL FEATURES FOR LAND USE CLASSIFICATION](#)

[Wawrzaszek, Anna](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Drzewiecki, Wojciech](#), AGH University of Science and Technology, Poland [Krupiński, Michał](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Jenerowicz, Małgorzata](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland [Aleksandrowicz, Sebastian](#), Centrum Badań Kosmicznych Polskiej Akademii Nauk, Poland

[TH1.R3.9: EXTRACTING VEHICLES IN POINT CLOUDS OF UNDERGROUND PARKING LOTS BASED ON GRAPH CONVOLUTION](#)

[Liu, Di](#), Xiamen University, China [Luo, Zhipeng](#), Xiamen University, China [Xiao, Zhenlong](#), Xiamen University, China [Li, Jonathan](#), Xiamen University; University of Waterloo, China

[TH1.R3.10: A HYBRID MODEL BASED ON FUSED FEATURES FOR DETECTION OF NATURAL DISASTERS FROM SATELLITE IMAGES](#)

[Gupta, Tanu](#), Indian Institute of Technology Roorkee, India [Roy, Sudip](#), Indian Institute of Technology Roorkee, India

[TH1.R3.11: SYMMETRIC SCATTERING MODEL BASED FEATURE EXTRACTION FROM GENERAL COMPACT POLARIMETRIC SAR IMAGERY](#)

[Yin, Junjun](#), University of Science and Technology Beijing, China [Yang, Jian](#), Tsinghua University, China

[TH1.R3.12: CNN-BASED BUILDING FOOTPRINT DETECTION FROM SENTINEL-1 SAR IMAGERY](#)

[Rapuzzi, Andrea](#), A-SIGN, Italy [Nattero, Cristiano](#), FadeOut Software srl, Italy [Pelich, Ramona](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [Chini, Marco](#), Luxembourg Institute of Science and Technology (LIST), Luxembourg [Campanella, Paolo](#), FadeOut Software srl, Italy

TH1.R4 - Wetlands and Inland Waters I

Thursday, October 1, 05:00 - 07:00 • Room 4

TH1.R4.1: MAPPING OF SHALLOW-WATER SITES TO AID NAVIGATION ON THE COLVILLE RIVER, NORTH SLOPE OF ALASKA

[Panda, Santosh](#), University of Alaska Fairbanks, United States [Payne, Cole](#), University of Alabama at Huntsville, United States [Smith, Christopher](#), University of Alaska Fairbanks, United States [Prakash, Anupma](#), University of Alaska Fairbanks, United States [Brinkman, Todd](#), University of Alaska Fairbanks, United States

TH1.R4.2: INSAR COHERENCE FOR MONITORING GROUNDWATER TABLE FLUCTUATIONS IN NORTHERN PEATLANDS

[Tampuu, Tauri](#), University of Tartu, Estonia [Praks, Jaan](#), Aalto University, Finland [Kull, Ain](#), University of Tartu, Estonia

TH1.R4.3: SPLIT-WINDOW BASED FLOOD MAPPING WITH L-BAND ALOS-2 SAR IMAGES: A CASE OF KERALA FLOOD EVENT IN 2018

[Vanama, Venkata Sai Krishna](#), Indian Institute of Technology Bombay, India [Shitole, Sanjay](#), Usha Mittal Institute of Technology, SNDT Women's University, India [Khali, Unmesh](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Rao, Y. S.](#), Indian Institute of Technology Bombay, India

TH1.R4.4: AUTOMATIC EXTRACTION OF FLOOD COVERAGE BASED ON DYNAMIC SURFACE WATER EXTENT AND SAR DATA

[Chen, Shujie](#), Wuhan University, China [Huang, Wenli](#), Wuhan University, China [Chen, Yumin](#), Wuhan University, China

TH1.R4.5: METHODOLOGY FOR MAPPING FLOOD EXTENT ON ESTONIAN FLOODPLAINS

[Sipelgas, Liis](#), Tallinn University of Technology, Estonia [Aavaste, Age](#), Tallinn University of Technology, Estonia [Uiboupin, Rivo](#), Tallinn University of Technology, Estonia [Rikka, Sander](#), Tallinn University of Technology, Estonia

TH1.R4.6: RELIABILITY EVALUATION OF WETLAND SAMPLES BASED ON HISTORICAL THEMATIC MAPS

[Yan, Xin](#), University of Chinese Academy of Sciences, China [Niu, Zhenguo](#), Chinese Academy of Sciences, China [Li, Yang](#), University of Chinese Academy of Sciences, China [Han, Qianqian](#), University of Chinese Academy of Sciences, China [Zhang, Haiying](#), Chinese Academy of Sciences, China

TH1.R4.7: MULTI-PREDICTOR ENSEMBLE MODEL FOR RIVER TURBIDITY ASSESSMENT USING LANDSAT 8 IMAGERY AT A REGIONAL SCALE

[Xu, Min](#), University of Alabama, United States [Liu, Hongxing](#), University of Alabama, United States [Liu, Yang](#), University of Alabama, United States

TH1.R4.8: WATER BODY EXTRACTION USING GF-3 POLSAR DATA -- A CASE STUDY IN POYANG LAKE

[Shen, Guozhuang](#), RAD, CAS, China [Fu, Wenxue](#), RAD, CAS, China

TH1.R4.9: MANGROVE MAPPING WITH THE FREEMAN-DURDEN POLARIMETRIC DECOMPOSITION AND INSAR COHERENCE FROM ALOS-2

[Liao, Tien-Hao](#), California Institute of Technology, United States [Simard, Marc](#), NASA Jet Propulsion Laboratory, United States [Marshak, Charlie](#), NASA Jet Propulsion Laboratory, United States [Denbina, Michael](#), NASA Jet Propulsion Laboratory, United States [Thomas, Nathan](#), Earth System Science Interdisciplinary Center, UMD/NASA GSFC, United States

TH1.R4.10: WATER BALANCE STUDY OF MANCHAR LAKE (SINDH, PAKISTAN) USING LANDSAT AND SENTINEL 3A

[Muzaffer, Ramsha](#), Institute of Space Technology, Pakistan [Zaidi, Arjumand](#), Mehran University of Engineering and Technology, Pakistan [Haque, Saad ul](#), Institute of Space Technology, Pakistan

TH1.R4.11: VALIDATION OF SENTINEL 3A ALTIMETRY DATA FOR RIVER LEVEL MONITORING AT TWO LOCATIONS ALONG THE LOWER INDUS RIVER

[Zaidi, Arjumand](#), Mehran University of Engineering and Technology, Pakistan, Pakistan
[Vignudelli, Stefano](#), CNR – Consiglio Nazionale delle Ricerche, Italy [Muzzafer, Ramsha](#),
 Institute of Space Technology, Pakistan [Panhwar, Vengus](#), Mehran University of Engineering
 and Technology, Pakistan [Zafar, Sumaira](#), Institute of Space Technology, Pakistan [Haque,](#)
[Saad](#), Institute of Space Technology, Pakistan

TH1.R4.12: DRAINAGE CANAL DETECTION USING MACHINE LEARNING ALGORITHM IN TROPICAL PEATLANDS

[Park, Haemi](#), Japan Aerospace Exploration Agency, Japan [Shimizu, Daiki](#), University of Tokyo,
 Japan [Takeuchi, Wataru](#), University of Tokyo, Japan

TH1.R5 - Classification Methods for Thursday, October 1, 05:00 - 07:00 • Room 5 SAR Data

TH1.R5.1: LAND COVER CLASSIFICATION FOR POLSAR IMAGES BASED ON MIXTURE MODELS AND MRF

[Liu, Xiyun](#), University of Science and Technology Beijing, China [Yin, Junjun](#), University of
 Science and Technology Beijing, China [Zhang, Jihua](#), Shanghai Electro Mechanical
 Engineering Institute, China [Yang, Jian](#), Tsinghua University, China

TH1.R5.2: SEMI-SUPERVISED CLASSIFICATION OF POLSAR DATA WITH MULTI-SCALE WEIGHTED GRAPH CONVOLUTIONAL NETWORK

[Ren, Shijie](#), Xidian University, China [Zhou, Feng](#), Xidian University, China

TH1.R5.3: UNSUPERVISED LAND COVER CLASSIFICATION OF HYBRID POLSAR IMAGES USING DEEP NETWORK

[Chatterjee, Ankita](#), Indian Institute of Technology Kharagpur, India [Saha, Jayasree](#), Indian
 Institute of Technology Kharagpur, India [Mukhopadhyay, Jayanta](#), Indian Institute of
 Technology Kharagpur, India [Aikat, Subhas](#), Indian Institute of Technology Kharagpur, India
[Misra, Arundhati](#), Indian Institute of Technology Kharagpur, India

TH1.R5.4: COMPLEX-VALUED SPATIAL-SCATTERING SEPARATED ATTENTION NETWORK FOR POLSAR IMAGE CLASSIFICATION

[Fan, Zhaohao](#), Nanjing University of Science and Technology, China [Ji, Zexuan](#), Nanjing
 University of Science and Technology, China [Fu, Peng](#), Nanjing University of Science and
 Technology, China [Wang, Tao](#), Nanjing University of Science and Technology, China [Shen,](#)
[Xiaobo](#), Nanjing University of Science and Technology, China [Sun, Quansen](#), Nanjing
 University of Science and Technology, China

TH1.R5.5: A HYBRID AND EXPLAINABLE DEEP LEARNING FRAMEWORK FOR SAR IMAGES

[Huang, Zhongling](#), Chinese Academy of Sciences, China [Datcu, Mihai](#), German Aerospace
 Center, Germany [Pan, Zongxu](#), Chinese Academy of Sciences, China [Lei, Bin](#), Chinese
 Academy of Sciences, China

TH1.R5.6: POLSAR SCENE CLASSIFICATION VIA LOW-RANK TENSOR-BASED MULTI-VIEW SUBSPACE REPRESENTATION

[Chen, Mengqian](#), Xidian University, China [Ren, Bo](#), Xidian University, China [Hou, Biao](#), Xidian
 University, China [Chanussot, Jocelyn](#), University Grenoble Alpes, France [Wang, Shuang](#),
 Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Xie, Wen](#), Xi'an
 University of Posts and Telecommunications, China

TH1.R5.7: POLSAR IMAGE CLASSIFICATION BASED ON OPTIMAL FEATURE AND CONVOLUTION NEURAL NETWORK

[Han, Ping](#), Tianjin Key Lab for Advanced Signal Processing, Civil Aviation University of China,
 China [Chen, Zetao](#), Tianjin Key Lab for Advanced Signal Processing, Civil Aviation University
 of China, China [Wan, Yishuang](#), Tianjin Key Lab for Advanced Signal Processing, Civil Aviation
 University of China, China [Cheng, Zheng](#), Civil Aviation University of China, China

TH1.R5.8: ASSESSING FOREST/NON-FOREST SEPARABILITY USING SENTINEL-1 C-BAND SAR

[Hansen, Johannes N.](#), University of Edinburgh, United Kingdom [Mitchard, Edward T. A.](#),
 University of Edinburgh, United Kingdom [King, Stuart](#), University of Edinburgh, United
 Kingdom

TH1.R5.9: LEARNING RELATION BY GRAPH NEURAL NETWORK FOR SAR IMAGE FEW-SHOT LEARNING

[Yang, Rui](#), Wuhan University, China [Xu, Xin](#), Wuhan University, China [Li, Xirong](#), Wuhan University, China [Wang, Lei](#), Wuhan University, China [Pu, Fangling](#), Wuhan University, China

TH1.R5.10: A NEURAL NETWORK APPROACH TO CLASSIFY MIXED CLASSES USING MULTI FREQUENCY SAR DATA

[Kukunuri, Anjana](#), Indian Institute of Technology Roorkee, India [Murugan, Deepak](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

TH1.R5.11: STACKED RANDOM FORESTS: MORE ACCURATE AND BETTER CALIBRATED

[Hänsch, Ronny](#), German Aerospace Center (DLR), Germany

TH1.R5.12: MULTI-VIEW CNN-LSTM NEURAL NETWORK FOR SAR AUTOMATIC TARGET RECOGNITION

[Wang, Chenwei](#), UESTC, China [Pei, Jifang](#), UESTC, China [Wang, Zhiyong](#), UESTC, China [Huang, Yuling](#), UESTC, China [Yang, Jianyu](#), UESTC, China

TH1.R6 - Land Cover Dynamics I Thursday, October 1, 05:00 - 07:00 • Room 6

TH1.R6.1: LAND COVER AND SOIL CONSUMPTION MONITORING WITH A FOS GEOPORTAL IN FIVE ITALIAN BIG URBAN AREAS

[Brovelli, Maria Antonia](#), Politecnico di Milano, Italy [Crespi, Mattia](#), Sapienza University of Rome, Italy [Kilsedar, Candan Eylul](#), Politecnico di Milano, Italy [Munafò, Michele](#), ISPRA - National Institute for Environmental Protection and Research, Italy [Ravanelli, Roberta](#), Sapienza University of Rome, Italy [Strollo, Andrea](#), ISPRA - National Institute for Environmental Protection and Research, Italy

TH1.R6.2: EARTH OBSERVATION STRATEGIES FOR DEGRADATION MONITORING IN SOUTH AFRICA WITH SENTINELS - RESULTS FROM THE SPACES 2 SALDI-PROJECT YEAR 1

[Schmullius, Christiane](#), University Jena, Dept. for Earth Observation, Germany [Urban, Marcel](#), University Jena, Dept. for Earth Observation, Germany [Hirner, Andreas](#), DLR Earth Observation Center, Germany [Berger, Christian](#), University Jena, Dept. for Earth Observation, Germany [Schellenberg, Konstantin](#), University Jena, Dept. for Earth Observation, Germany [Ramoelo, Abel](#), South African National Parks, South Africa [Smit, Izak](#), South African National Parks, South Africa [Strydom, Tercia](#), South African National Parks, South Africa [Chirima, George](#), Agricultural Research Center, South Africa [Morgenthal, Theunis](#), Department for Agriculture, Forestry and Fisheries, South Africa [Melly, Brigitte](#), South African Environmental Observation Network, South Africa [Gessner, Ursula](#), DLR Earth Observation Center, Germany [Mashiyi, Nosiseko](#), SANSA, South Africa [Mlisa, Andiswa](#), SANSA, South Africa [Kganyago, Mahlatse](#), SANSA, South Africa [Baade, Jussi](#), University Jena, Dept. for Physical Geography, Germany

TH1.R6.3: DETECTION OF CHANGES IN IMPERVIOUS SURFACE USING SENTINEL-2 IMAGERY

[Zhang, Yiming](#), University of Maryland, United States [Skakun, Sergii](#), University of Maryland; NASA Goddard Space Flight Center Code 619, United States [Prudente, Victor](#), University of Maryland; National Institute for Space Research, United States

TH1.R6.4: GLOBAL VEGETATION MAPPING FOR ESA CLIMATE CHANGE INITIATIVE PROJECT LEVERAGING MULTITEMPORAL HIGH RESOLUTION SENTINEL-1 SAR DATA

[Marzi, David](#), University of Pavia, Italy [Gamba, Paolo](#), University of Pavia, Italy

TH1.R6.5: DEVELOPMENT OF GLOBAL LAND SURFACE PHENOLOGY PRODUCT FROM TIME SERIES OF VIIRS OBSERVATIONS

[Zhang, Xiaoyang](#), South Dakota State University, United States [Wang, Jianmin](#), South Dakota State University, United States [Ye, Yongchang](#), South Dakota State University, United States

TH1.R6.6: STABILITY CHARACTERIZATION OF THE RESPONSE OF WHITE STORKS' FORAGING BEHAVIOR TO VEGETATION DYNAMICS RETRIEVED FROM LANDSAT TIME

SERIES

[Standfuß, Ines](#), German Aerospace Center, Germany [Geiß, Christian](#), German Aerospace Center, Germany [Nathan, Ran](#), Hebrew University of Jerusalem, Israel [Rotics, Shay](#), Hebrew University of Jerusalem, Israel [Dech, Stefan](#), German Aerospace Center, Germany [Taubenböck, Hannes](#), German Aerospace Center, Germany

[TH1.R6.7: IMPACT OF MEGADROUGHT ON VEGETATION PRODUCTIVITY IN CHILE: FOREST LESSER RESISTANT THAN CROPS AND GRASSLAND](#)

[Zambrano, Francisco](#), Universidad Mayor, Chile [Molina, Mauricio](#), Universidad Mayor, Chile [Venegas, Alejandro](#), Universidad Mayor, Chile [Molina, Julio](#), Universidad Mayor, Chile [Vidal-Páez, Paulina](#), Universidad Mayor, Chile

[TH1.R6.8: DEVELOPMENT OF A HARMONIZED MULTI-SENSOR GLOBAL ACTIVE FIRE DATA SET: CURRENT STATUS AND MULTI-PRODUCT VALIDATION RESULTS](#)

[Hall, Joanne](#), University of Maryland, United States [Rishmawi, Khaldoun](#), University of Maryland, United States [Schroeder, Wilfrid](#), National Oceanic and Atmospheric Administration (NOAA), National Environmental Satellite, Data, and Information Service (NESDIS), United States [Huang, Chengquan](#), University of Maryland, United States [Giglio, Louis](#), University of Maryland, United States

[TH1.R6.9: AN INTRODUCTION TO THE GEONEX LEVEL-1G PRODUCTS: TOP-OF-ATMOSPHERE REFLECTANCE AND BRIGHTNESS TEMPERATURE](#)

[Wang, Weile](#), NASA Ames Research Center/ARC-CREST, United States [Hashimoto, Hirofumi](#), NASA Ames Research Center/ARC-CREST, United States [Michaelis, Andrew](#), NASA Ames Research Center/ARC-CREST, United States [Li, Shuang](#), Guiyang Education University, China [Takenaka, Hideaki](#), Japan Aerospace Exploration Agency, Japan [Higuchi, Atsushi](#), Chiba University, Japan [Kalluri, Satya](#), NOAA, United States [Nemani, Ramakrishna](#), NASA Ames Research Center, United States

[TH1.R6.10: ASSESSMENT OF IMAGERY FOR LAND MAPPING WITH CONSTELLATION AND CONVENTIONAL SATELLITE](#)

[Yamada, Tatsuya](#), University of Tokyo, Japan [Inoue, Yoshio](#), University of Tokyo, Japan [Iwasaki, Akira](#), University of Tokyo, Japan

[TH1.R6.11: UNSUPERVISED METRIC FOR LARGE-SCALE CLOUD MASK EVALUATION](#)

[Maguire, Conor](#), Descartes Labs, United States [Zinzow, Clark](#), Descartes Labs, United States [Longbotham, Nathan](#), Descartes Labs, United States

TH1.R7 - Target Detection II

Thursday, October 1, 05:00 - 07:00 • Room 7

[TH1.R7.1: DEEP LEARNING-BASED HYPERSPECTRAL TARGET DETECTION WITHOUT EXTRA LABELED DATA](#)

[Dou, Zeyang](#), Beijing Institute of Technology, China [Gao, Kun](#), Beijing Institute of Technology, China [Zhang, Xiaodian](#), Beijing Institute of Technology, China [Wang, Junwei](#), Beijing Institute of Technology, China [Wang, Hong](#), Beijing Institute of Technology, China

[TH1.R7.2: DICTIONARY LEARNING HYPERSPECTRAL TARGET DETECTION ALGORITHM BASED ON TUCKER TENSOR DECOMPOSITION](#)

[Zhao, Chunhui](#), Harbin Engineering University, China [Wang, Mingxing](#), Harbin Engineering University, China [Su, Nan](#), Harbin Engineering University, China [Feng, Shou](#), Harbin Engineering University, China

[TH1.R7.3: INTEREST OF TEMPORAL METHODS OVER SPATIAL METHODS IN ORDER TO DETECT SMALL TARGETS](#)

[Paillou, Nathan](#), SONDRRA / CentraleSupélec, France [Thirion-Lefèvre, Laetitia](#), SONDRRA / CentraleSupélec, France [Guinvarc'h, Régis](#), SONDRRA / CentraleSupélec, France

[TH1.R7.4: SPECTRAL-SPATIAL JOINT TARGET DETECTION OF HYPERSPECTRAL IMAGE BASED ON TRANSFER LEARNING](#)

[Feng, Zhenyuan](#), Harbin Institute of Technology, China [Zhang, Junping](#), Harbin Institute of Technology, China [Feng, Jia](#), Harbin Institute of Technology, China

[TH1.R7.5: A HIGH RESOLUTION SAR SHIP SAMPLE DATABASE AND SHIP TYPE CLASSIFICATION](#)

[Bao, Meng](#), First Institute of Oceanography, Ministry of Natural Resources, China [Meng, Junmin](#), First Institute of Oceanography, Ministry of Natural Resources, China [Zhang, Xi](#), First Institute of Oceanography, Ministry of Natural Resources, China [Liu, Genwang](#), First Institute of Oceanography, Ministry of Natural Resources, China

[TH1.R7.6: VISUAL CONTEXT AWARE SHIP DETECTOR FOR HIGH-RESOLUTION SAR IMAGERY](#)

[Wang, Shigang](#), Northwestern Polytechnical University, China [Li, Dongsheng](#), Northwestern Polytechnical University, China [Liu, Shuwen](#), Northwestern Polytechnical University, China [Li, Bin](#), Northwestern Polytechnical University, China

[TH1.R7.7: A NOVEL GOSD-CFAR FOR MILLIMETER WAVE RADAR DETECTION](#)

[Qin, Fei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liu, Yunlong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liang, Xingdong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

[TH1.R7.8: SOME CLOSED-FORM EXPRESSIONS FOR ABSORPTIVE PLUME DETECTION](#)

[Theiler, James](#), Los Alamos National Laboratory, United States [Schaum, Alan](#), U. S. Naval Research Laboratory, United States

[TH1.R7.9: SPECTRAL INFORMATION CONTENT ALGORITHM FOR AUTOMATED SIGNATURE ASSESSMENT](#)

[Rankin, Blake](#), Johns Hopkins University Applied Physics Laboratory, United States [Lippa, Timothy](#), Johns Hopkins University Applied Physics Laboratory, United States [Broadwater, Joshua](#), Johns Hopkins University Applied Physics Laboratory, United States

[TH1.R7.10: AN IMPROVED TARGET EXTRACTION SCHEME FOR FORWARD-LOOKING SCANNING RADAR](#)

[Li, Wenchao](#), University of Electronic Science and Technology of China, China [Yang, Shirui](#), University of Electronic Science and Technology of China, China [Zhang, Wentao](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

[TH1.R7.11: CHARACTERIZATION OF THE WALKING ACTIVITY WITHIN THE FOREST BY USING A DOPPLER ANALYSIS IN THE UHF-BAND](#)

[Manfredi, Giovanni](#), CentraleSupélec, Université Paris-Saclay, France [Hinostroza, Israel](#), CentraleSupélec, Université Paris-Saclay, France [Menelle, Michel](#), ONERA, Université Paris-Saclay, France [Saillant, Stephane](#), ONERA, Université Paris-Saclay, France [Ovarlez, Jean Philippe](#), ONERA, Université Paris-Saclay - CentraleSupélec, France [Thirion-Lefevre, Laetitia](#), CentraleSupélec, Université Paris-Saclay, France

TH1.R8 - Ocean Surface Winds and Currents III Thursday, October 1, 05:00 - 07:00 • Room 8

[TH1.R8.1: COMPARISON OF SPATIAL DISTRIBUTION OF HIGH WIND SPEED AROUND TYPHOONS DERIVED FROM AMSR2 ALL-WEATHER SEA SURFACE WIND SPEED PRODUCT WITH JMA BEST-TRACK DATA](#)

[Ebuchi, Naoto](#), Hokkaido University, Japan

[TH1.R8.2: MLE ANALYSIS FROM THE COMBINED SCATTEROMETER AND ALTIMETER MEASUREMENTS OF THE HY-2B SATELLITE](#)

[Li, Xiuzhong](#), Nanjing University of Information Science and Technology, China [Lin, Wenming](#), Nanjing University of Information Science and Technology, China [He, Yijun](#), Nanjing University of Information Science and Technology,

[TH1.R8.3: A STUDY ON MICROWAVE EMISSIVITY FROM WIND-INDUCED SEA FOAM](#)

[Huang, Xiaoqi](#), National Ocean Technology Center, China [Tjuatja, Saibun](#), University of Texas at Arlington, United States [Wang, Zhenzhan](#), National Space Science Center, Chinese Academy of Sciences, China [Zhu, Jianhua](#), National Ocean Technology Center, China

[TH1.R8.4: GENERALIZATION OF KU-BAND FALSE-ALARM REDUCTION METHOD AND APPLICATION TO CSCAT](#)

[Xu, Xingou](#), National Space Science Center, Chinese Academy of Sciences, China [Stoffelen](#),

[Ad](#), Royal Netherlands Meteorological Institute (KNMI), Netherlands [Lin, Wenming](#), Nanjing University of Information Science and Technology, China [Dong, Xiaolong](#), National Space Science Center, Chinese Academy of Sciences, China

[TH1.R8.5: EXTREME HIGH WIND SPEED MONITORING WITH SPATIAL RESOLUTION ENHANCEMENT OF HY-2B SMR BRIGHTNESS TEMPERATURE](#)

[Li, Yan](#), Shenzhen PIESAT Information Technology Co., Ltd., China [Yin, Xiaobin](#), Shenzhen PIESAT Information Technology Co., Ltd., China [Wang, Shishuai](#), Shenzhen PIESAT Information Technology Co., Ltd., China [Zhou, Wu](#), National Satellite Ocean Application Service, China [Lin, Mingsen](#), National Satellite Ocean Application Service, China [Ma, Chaofei](#), National Satellite Ocean Application Service, China

[TH1.R8.6: SCATSAT-1 HIGH WINDS GEOPHYSICAL MODEL FUNCTION AND ITS WINDS APPLICATION IN OPERATIONAL MARINE FORECASTING AND WARNING](#)

[Soisuvann, Seubson](#), NOAA, United States [Jelenak, Zorana](#), NOAA, United States [Chang, Paul](#), NOAA, United States [Park, Jeonghwan](#), NOAA, United States [Zhu, Qi](#), NOAA, United States [Sapp, Joe](#), NOAA, United States [Said, Faozi](#), NOAA, United States

[TH1.R8.7: A STUDY ON COMBINED C- AND KU-BAND RAIN EFFECTS FOR WIND SCATTEROMETRY QUALITY CONTROL](#)

[Xu, Xingou](#), National Space Science Center, Chinese Academy of Sciences, China [Tjuatja, Saibun](#), University of Texas at Arlington, United States [Stoffelen, Ad](#), Royal Netherlands Meteorological Institute (KNMI), Netherlands [Dong, Xiaolong](#), National Space Science Center, Chinese Academy of Sciences, China

[TH1.R8.8: EXAMINING SCATTEROMETER CALIBRATION IN HIGH SEAS](#)

[Wright, Ethan](#), Florida State University, United States [Bourassa, Mark](#), Florida State University, United States

[TH1.R8.9: PERFORMANCE ASSESSMENT OF CYGNSS HIGH WIND RETRIEVAL FOR THE IMPROVED EIRP CALIBRATION](#)

[Balasubramaniam, Rajeswari](#), University of Michigan, Ann Arbor, United States [Ruf, Chris](#), University of Michigan, Ann Arbor, United States

[TH1.R8.10: CYGNSS-BASED TROPICAL CYCLONE GALE WIND RADII ESTIMATES: A RETROSPECTIVE EVALUATION](#)

[Morris, Mary](#), NASA Jet Propulsion Laboratory, United States [Sampson, Charles](#), Naval Research Laboratory, United States

[TH1.R8.11: CNN-BASED TROPICAL CYCLONE TRACK FORECASTING FROM SATELLITE INFRARED IMAGES](#)

[Wang, Chong](#), Hohai University, China [Xu, Qing](#), Hohai University, China [Li, Xiaofeng](#), Chinese Academy of Sciences, China [Cheng, Yongcun](#), Beijing Piesat Information Technology Co. Ltd, China

TH1.R9 - Semantic Learning for Image Analysis

Thursday, October 1, 05:00 - 07:00 • Room 9

[TH1.R9.1: SELF-CONSTRUCTING GRAPH CONVOLUTIONAL NETWORKS FOR SEMANTIC LABELING](#)

[Liu, Qinghui](#), Norwegian Computing Center, Norway [Kampffmeyer, Michael](#), UiT The Arctic University of Norway, Norway [Jenssen, Robert](#), UiT The Arctic University of Norway, Norway [Salberg, Arnt-Børre](#), Norwegian Computing Center, Norway

[TH1.R9.2: REGULARIZED BUILDING SEGMENTATION BY FRAME FIELD LEARNING](#)

[Girard, Nicolas](#), Inria, France [Smirnov, Dmitriy](#), Massachusetts Institute of Technology, United States [Solomon, Justin](#), Massachusetts Institute of Technology, United States [Tarabalka, Yuliya](#), LuxCarta Technology, France

[TH1.R9.3: LOOK AT THE BIG PICTURE: BUILDING AREA EXTRACTION WITH GLOBAL DENSITY MAP](#)

[Guo, Haowen](#), Wuhan University, China [Zou, Tongyuan](#), Space Star Technology Co., Ltd. (SST), China [Cheng, Wensheng](#), Wuhan University, China [Yang, Wen](#), Wuhan University, China [Xia, Guisong](#), Wuhan University, China

TH1.R9.4: SEMANTIC SEGMENTATION REFINEMENT WITH DEEP EDGE SUPERPIXELS TO ENHANCE HISTORICAL LAND COVER

[Ratajczak, Rémi](#), Laboratoire d'InfoRmatique en Image et Systèmes d'information, France
[Crispim-Junior, Carlos](#), Laboratoire d'InfoRmatique en Image et Systèmes d'information, France
[Fervers, Béatrice](#), Centre Léon Bérard, France
[Faure, Elodie](#), Gustave Roussy, France
[Touagne, Laure](#), Laboratoire d'InfoRmatique en Image et Systèmes d'information, France

TH1.R9.5: A MODIFIED D-LINKNET WITH TRANSFER LEARNING FOR ROAD EXTRACTION FROM HIGH-RESOLUTION REMOTE SENSING

[Zhang, Yanan](#), China University of Geosciences, China
[Zhu, Qiqi](#), China University of Geosciences, China
[Zhong, Yanfei](#), Wuhan University, China
[Guan, Qingfeng](#), China University of Geosciences, China
[Zhang, Liangpei](#), Wuhan University, China
[Li, Deren](#), Wuhan University, China

TH1.R9.6: LEARNING DISCRIMINATIVE GLOBAL AND LOCAL FEATURES FOR BUILDING EXTRACTION FROM AERIAL IMAGES

[Liao, Yue](#), Wuhan University, China
[Zhang, Hongyan](#), Wuhan University, China
[Yang, Guangyi](#), Wuhan University, China
[Zhang, Liangpei](#), Wuhan University, China

TH1.R9.7: DILATED RESIDUAL NETWORK BASED ON DUAL EXPECTATION MAXIMIZATION ATTENTION FOR SEMANTIC SEGMENTATION OF REMOTE SENSING IMAGES

[Liu, Jiachao](#), Xidian University, China
[Xiong, Xinyue](#), Xidian University, China
[Li, Jiaojiao](#), Xidian University, China
[Wu, Chaoxiong](#), Xidian University, China
[Song, Rui](#), Xidian University, China

TH1.R9.8: MAP-REPAIR: DEEP CADASTRE MAPS ALIGNMENT AND TEMPORAL INCONSISTENCIES FIX IN SATELLITE IMAGES

[Zorzi, Stefano](#), TUGraz, Austria
[Bittner, Ksenia](#), German Aerospace Center (DLR), Germany
[Fraundorfer, Friedrich](#), TUGraz, Austria

TH1.R9.9: SEMANTIC SEGMENTATION OF URBAN BUILDINGS FROM VHR REMOTELY SENSED IMAGERY USING ATTENTION-BASED CNN

[Zhang, Zhijie](#), University of Connecticut, United States
[Zhang, Chuanrong](#), University of Connecticut, United States
[Li, Weidong](#), University of Connecticut, United States

TH1.R9.10: SEMI2I: SEMANTICALLY CONSISTENT IMAGE-TO-IMAGE TRANSLATION FOR DOMAIN ADAPTATION OF REMOTE SENSING DATA

[Tasar, Onur](#), INRIA, France
[Happy, S.L](#), INRIA, France
[Tarabalka, Yuliya](#), INRIA, France
[Alliez, Pierre](#), INRIA, France

TH1.R9.11: SPATIAL ATTENTION NETWORK FOR ROAD EXTRACTION

[Chen, Ruonan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Hu, Yuan](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Wu, Tong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Peng, Ling](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

TH1.R10 - Remote Sensing for Forest and Vegetation Growth and Dynamics Thursday, October 1, 05:00 - 07:00 • Room 10

TH1.R10.1: NATION-WIDE MAPPING OF TREE GROWTH USING REPEATED AIRBORNE LASER SCANNING

[Wallerman, Jörgen](#), Swedish University of Agricultural Sciences, Sweden
[Nyström, Kenneth](#), Swedish University of Agricultural Sciences, Sweden
[Nilsson, Mats](#), Swedish University of Agricultural Sciences, Sweden
[Axensten, Peder](#), Swedish University of Agricultural Sciences, Sweden
[Egberth, Mikael](#), Swedish University of Agricultural Sciences, Sweden
[Jonzén, Jonas](#), Swedish University of Agricultural Sciences, Sweden
[Sandström, Emma](#), Swedish University of Agricultural Sciences, Sweden
[Fransson, Johan](#), Swedish University of Agricultural Sciences, Sweden
[Olsson, Håkan](#), Swedish University of Agricultural Sciences, Sweden

TH1.R10.2: LEAF AGING AFFECTS THE VARIABILITY OF CANOPY REFLECTANCE WITH STAND DEVELOPMENT IN EVERGREEN CHINESE FIR PLANTATION

[Wu, Qiaoli](#), Beijing Normal University, China [Song, Jinling](#), Beijing Normal University, China [Wang, Jindi](#), Beijing Normal University, China [Song, Conghe](#), University of North Carolina at Chapel Hill, United States [Chen, Shaoyuan](#), Beijing Normal University, China [Yang, Lei](#), Beijing Normal University, China

TH1.R10.3: MONITORING THE GLOBAL BIOMASS THANKS TO 10 YEARS OF SMOS VEGETATION OPTICAL DEPTH

[Bousquet, Emma](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Mialon, Arnaud](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Rodriguez-Fernandez, Nemesio](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Kerr, Yann](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France

TH1.R10.4: MONITORING DYNAMIC CHANGES OF VEGETATION COVER IN THE TARIM RIVER BASIN BASED WITH LANDSAT IMAGERY AND GOOGLE EARTH ENGINE

[Zhao, Tian](#), Beijing Normal University, China [Yang, Yang](#), Beijing Normal University, China [Mu, Xihan](#), Beijing Normal University, China

TH1.R10.5: PRELIMINARY STUDY OF WAVELENGTH POSITIONS OF LEAF FLUORESCENCE PEAKS WITH EXPERIMENTAL DATA

[Zhao, Feng](#), Beihang University, China [Yuan, Jiahao](#), Beihang University, China [Huang, Yanbo](#), United States Department of Agriculture-Agricultural Research Service, United States [Magney, Troy](#), University of California, United States [Porcar-Castell, Albert](#), University of Helsinki, Finland

TH1.R10.6: GENETICALLY CONSTRAINED TEMPORAL TRAJECTORIES OF TEMPERATE FOREST AIRBORNE REFLECTANCE SPECTRA

[Czyż, Ewa A.](#), University of Zurich, Switzerland [Carla Guillén Escribà, Carla](#), University of Zurich, Switzerland [Eppinga, Maarten B.](#), University of Zurich, Switzerland [Hueni, Andreas](#), University of Zurich, Switzerland [Schmid, Bernhard](#), University of Zurich, Switzerland [Schaepman, Michael E.](#), University of Zurich, Switzerland

TH1.R10.7: SIMULATION OF SOLAR-INDUCED CHLOROPHYLL FLUORESCENCE FROM 3D CANOPIES WITH THE DART MODEL

[Regaieg, Omar](#), Centre d'Etudes Spatiales de la Biosphère, France [Wang, Yingjie](#), Centre d'Etudes Spatiales de la Biosphère, France [Malenovsky, Zbynek](#), University of Tasmania, Australia [Yin, Tiangang](#), University of Maryland, United States [Kallel, Abdelaziz](#), Centre de Recherche en Numérique de SFAX, China [Duran Gomes, Nuria](#), Magellium, France [Delavois, Antony](#), Centre d'Etudes Spatiales de la Biosphère, France [Qi, Jianbo](#), Beijing Forestry University, China [Chavanon, Eric](#), Centre d'Etudes Spatiales de la Biosphère, France [Lauret, Nicolas](#), Centre d'Etudes Spatiales de la Biosphère, France [Guilleux, Jordan](#), Centre d'Etudes Spatiales de la Biosphère, France [Cook, Bruce](#), NASA Goddard Space Flight Center, United States [Morton, Douglas](#), NASA Goddard Space Flight Center, United States [Gastellu-Etchegorry, Jean-Philippe](#), Centre d'Etudes Spatiales de la Biosphère, France

TH1.R10.8: THE AOD SENSITIVITY COMPARISON BETWEEN MODIS MULTI-ANGLE IMPLEMENTATION OF ATMOSPHERIC CORRECTION (MAIAC) AND STANDARD MODIS SURFACE REFLECTANCE

[Wang, Yujie](#), University of Maryland, Baltimore County, United States [Zhao, Feng](#), Science Systems and Applications, Inc, United States [Lyapustin, Alexei](#), NASA, United States

TH1.R10.9: EVALUATION OF FOUR THERMAL INFRARED KERNEL-DRIVEN MODELS USING LIMITED OBSERVATIONS

[Ran, Xueting](#), School of Resources and Environment, University of Electronic Science and Technology of China, China [Cao, Biao](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Qin, Boxiong](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Bian, Zunjian](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Du, Yongming](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Li, Hua](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Xiao, Qing](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Liu, Qinhua](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

TH1.R10.10: OPTIMUM SENTINEL-1 PIXEL SPACING FOR BURNED AREA MAPPING

[Belenguier-Plomer, Miguel A.](#), Universidad de Alcalá, Spain [Chuvieco, Emilio](#), Universidad de

Alcalá, Spain [Tanase, Mihai A.](#), Universidad de Alcalá, Spain

TH1.R10.11: A NEW PHENOLOGY METHOD FOR MODELLING DYNAMICS OF GLOBAL LEAF AREA INDEX

[Zhou, Xuewen](#), Sun Yat-sen University, China [Xin, Qinchuan](#), Sun Yat-sen University, China

TH1.R11 - Remote Sensing for Crop Monitoring, Mapping and Classification IV

Thursday, October 1, 05:00 - 07:00 • Room 11

TH1.R11.1: A NOVEL FEATURE FOR DETECTION OF RICE FIELD DISTRIBUTION USING TIME SERIES SAR DATA

[Chang, Lena](#), National Taiwan Ocean University, Taiwan [Chen, Yi-Ting](#), National Taiwan Ocean University, Taiwan [Chang, Yang-Lang](#), National Taipei University of Technology, Taiwan [Wu, Meng-Che](#), National Space Organization, Taiwan

TH1.R11.2: VEGETATION MONITORING USING A NEW DUAL-POL RADAR VEGETATION INDEX: A PRELIMINARY STUDY WITH SIMULATED NASA-ISRO SAR (NISAR) L-BAND DATA

[Mandal, Dipankar](#), Indian Institute of Technology Bombay, India [Bhogapurapu, Narayana Rao](#), Indian Institute of Technology Bombay, India [Kumar, Vineet](#), Delft University of Technology, Netherlands [Dey, Subhadip](#), Indian Institute of Technology Bombay, India [Ratha, Debanshu](#), Indian Institute of Technology Bombay, India [Bhattacharya, Avik](#), Indian Institute of Technology Bombay, India [Lopez-Sanchez, Juan M.](#), University of Alicante, Spain [McNairn, Heather](#), Agriculture and Agri-Food Canada, Canada [Rao, Y.S.](#), Indian Institute of Technology Bombay, India

TH1.R11.3: RADAR-CROP-MONITOR - MAPPING AGRICULTURAL CONDITIONS WITH SENTINEL-1 TIME SERIES

[Schmullius, Christiane](#), University Jena, Dept. for Earth Observation, Germany [Salepci, Nesrin](#), University Jena, Dept. for Earth Observation, Germany [Arslanova, Linara](#), University Jena, Dept. for Earth Observation, Germany [Pathe, Carsten](#), University Jena, Dept. for Earth Observation, Germany [Urban, Marcel](#), University Jena, Dept. for Earth Observation, Germany [Foelsch, Marcel](#), CLAAS E-Systems GmbH, Germany [Scheibler, Friedemann](#), CLAAS E-Systems GmbH, Germany

TH1.R11.4: ON THE ASYMMETRY OF THE RED TO FAR-RED RATIOS OF LIGHT PROPAGATED BY THE ADAXIAL AND ABAXIAL SURFACES OF BIFACIAL LEAVES

[Baranoski, Gladimir](#), University of Waterloo, Canada

TH1.R11.5: ESTIMATION OF VISUAL RATING OF TAR SPOT DISEASE OF CORN USING UNMANNED AERIAL SYSTEMS (UAS) DATA AND MACHINE LEARNING TECHNIQUES

[Oh, Sungchan](#), Purdue Univeristy, United States [Lee, Da-Young](#), Purdue Univeristy, United States [Gongora-Canul, Carlos](#), Purdue Univeristy, United States [Cruz-Sancan, Andres](#), Purdue Univeristy, United States [Ashapure, Akash](#), Purdue Univeristy, United States [Fernandez, Mariela](#), Purdue Univeristy, United States [Telenko, Darcy](#), Purdue University, United States [Jung, Jinha](#), Purdue Univeristy, United States [Cruz, Christian](#), Purdue Univeristy, United States

TH1.R11.6: MULTI-SCALE REMOTE SENSING FOR FALL ARMYWORM MONITORING AND EARLY WARNING SYSTEMS

[Buchailot, Ma. Luisa](#), University of Barcelona, Spain [Cairns, Jill](#), International Maize and Wheat Improvement Center, CIMMYT, Zimbabwe [Hamadziripi, Esnath](#), International Maize and Wheat Improvement Center, CIMMYT, Zimbabwe [Wilson, Kenneth](#), Lancaster University, United Kingdom [Hughes, David](#), Pennsylvania State University, United States [Chelal, John](#), Moi University, Kenya [McCloskey, Peter](#), Pennsylvania State University, United States [Kehs, Annalyse](#), Pennsylvania State University, United States [Clinton, Nicholas](#), Google, United States [Cressman, Keith](#), United Nations Food and Agriculture Organization, Italy [Araus, José Luis](#), University of Barcelona, Spain [Kefauver, Shawn C.](#), University of Barcelona, Spain

TH1.R11.7: MACHINE LEARNING APPROACHES FOR CROP GROWTH MONITORING USING MULTI-TEMPORAL AND MULTI-VARIETY REMOTELY SENSED DATA

[Zhao, Yu](#), HITACHI, Ltd., Japan [Justina, Diego Della](#), University of Campinas, Brazil

TH1.R11.8: USING C-BAND SAR AND TEMPERATURE TO MONITOR TROPICAL AGRICULTURAL FIELDS

[Silva-Perez, Cristian](#), University of Stirling, United Kingdom [Marino, Armando](#), University of Stirling, United Kingdom [Cameron, Iain](#), Environment systems LTD, United Kingdom

TH1.R11.9: IMPROVING SEVERE-WEATHER RESILIENCE FOR MONGOLIAN HERDING COMMUNITIES USING SATELLITE EARTH OBSERVATION IMAGERY

[Wyniaowskyj, Nina Sofia](#), Deimos Space UK Ltd., United Kingdom [Contenta, Filippo](#), eOsphere Ltd., United Kingdom [Flach, Dominic](#), eOsphere Ltd., United Kingdom [Hadland, Anneley](#), ESRI UK, United Kingdom [Hopkin, Alison](#), Deimos Space UK Ltd., United Kingdom [Lidgley, Jack](#), eOsphere Ltd., United Kingdom [Petit, David](#), Deimos Space UK Ltd., United Kingdom [Podder, Pritimoy](#), Deimos Space UK Ltd., United Kingdom [Osadolor, Fortune](#), Deimos Space UK Ltd., United Kingdom [Walker, Nick](#), eOsphere Ltd., United Kingdom

TH1.R11.10: A SUPERVOXEL-BASED APPROACH FOR LEAVES SEGMENTATION OF POTATO PLANTS FROM POINT CLOUDS

[Angulo, Victor](#), Universidad Distrital Francisco Jose de Caldas, Colombia [Rodriguez, Jorge](#), Universidad Nacional de Colombia, Colombia [Gaona, Elvis](#), Universidad Distrital Francisco Jose de Caldas, Colombia [Prieto, Flavio](#), Universidad Nacional de Colombia, Colombia

[Lizarazo, Ivan](#), Universidad Nacional de Colombia, Colombia

TH1.R12 - Regression and Estimation Methods and Applications

Thursday, October 1, 05:00 - 07:00 • Room 12

TH1.R12.1: UAV IMAGE MOSAICING BASED MULTI-REGION LOCAL PROJECTION DEFORMATION

[Xu, Quan](#), China University of Geosciences, China [Luo, Linbo](#), China University of Geosciences, China [Chen, Jun](#), China University of Geosciences, China [Gong, Wenping](#), China University of Geosciences, China [Guo, Donghai](#), China University of Geosciences, China

TH1.R12.2: DRONE IMAGE STITCHING USING LOCAL LEAST SQUARE ALIGNMENT

[Wan, Qi](#), China University of Geosciences, China [Luo, Linbo](#), China University of Geosciences, China [Chen, Jun](#), China University of Geosciences, China [Wang, Yong](#), China University of Geosciences, China [Guo, Donghai](#), China University of Geosciences, China

TH1.R12.3: FLIGHT DATA OF AIRPLANE FOR WIND FORECASTING

[Sharma, Astha](#), University of New Orleans, United States [Hoque, Md Tamjidul](#), University of New Orleans, United States [Ioup, Elias](#), Naval Research Laboratory, United States [Abdelguerfi, Mahdi](#), University of New Orleans, United States

TH1.R12.4: SPECTRAL SUPER-RESOLUTION USING HYBRID 2D-3D STRUCTURE TENSOR ATTENTION NETWORKS WITH CAMERA SPECTRAL SENSITIVITY PRIOR

[Wu, Chaoxiong](#), Xidian University, China [Li, Jiaojiao](#), Xidian University, China [Song, Rui](#), Xidian University, China [Li, Yunsong](#), Xidian University, China

TH1.R12.5: PLSR METHOD FOR CONTAMINATING MINERAL CONTENT PREDICTION FROM FIELD HYPERSPECTRAL REFLECTANCE: A CASE STUDY OF HAMMAM ZRIBA MINING AREA

[Dkhala, Belgacem](#), Faculty of Sciences of Tunis, University of Tunis El Manar, Tunisia [Mezned, Nouha](#), Faculty of Sciences of Tunis, University of Tunis El Manar, Tunisia [Gomez, Cécile](#), Institut de Recherche pour le Développement, France [Abdeljaouad, Sâadi](#), Faculty of Science of Tunis, University of Tunis El Manar, Tunisia

TH1.R12.6: IMPROVEMENTS TO AN END-MEMBER-BASED TWO-SOURCE APPROACH FOR ESTIMATING GLOBAL EVAPOTRANSPIRATION

[Wang, Shengli](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Tang, Ronglin](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Jiang, Yazhen](#), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Liu, Meng](#), Ministry of Agriculture/Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, China

TH1.R12.7: ROBUST ESTIMATION APPROACH FOR PLANE FITTING IN 3D LASER

SCANNING DATA

[Zhang, Lishuo](#), Guangzhou Urban Planning & Design Survey Institute, China [Lin, Hong](#), Guangzhou Urban Planning & Design Survey Institute, China [Li, Changhui](#), Guangzhou Urban Planning & Design Survey Institute, China [Song, Yang](#), Guangzhou Urban Planning & Design Survey Institute, China [Wang, Feng](#), Guangzhou Urban Planning & Design Survey Institute, China

TH1.R12.8: EXTRACTING CAMERA POSE USING SINGLE IMAGE SUPER RESOLUTION NETWORKS

[Koskovich, Bradley](#), Texas A&M University Corpus Christi, United States [Starek, Michael](#), Texas A&M University Corpus Christi, United States

TH1.R12.9: LARGE-SCALE VEGETATION HEIGHT MAPPING FROM SENTINEL DATA USING DEEP LEARNING

[Waldeland, Anders Ueland](#), Norwegian Computing Center, Norway [Salberg, Arnt B.](#), Norwegian Computing Center, Norway [Trier, Øivind Due](#), Norwegian Computing Center, Norway [Vollrath, Andreas](#), European Space Agency, Italy

TH1.R12.10: GRAPH-BASED ARRAY SIGNAL DENOISING FOR PERTURBED SYNTHETIC APERTURE RADAR

[Liu, Dehong](#), Mitsubishi Electric Research Laboratories, United States [Chen, Siheng](#), Mitsubishi Electric Research Laboratories, United States [Boufounos, Petros](#), Mitsubishi Electric Research Laboratories, United States

TH1.R12.11: SOIL MOISTURE RETRIEVAL USING STACKED GENERALIZATION: AN ENSEMBLE MACHINE LEARNING METHOD

[Cheng, Yuan](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Wu, Huanping](#), China Meteorological Administration, China [Li, Fan](#), University of Electronic Science and Technology of China, China [Li, Yuzhen](#), ChengDu Software Industry Development Center, China [He, Lei](#), Chengdu University of Information Technology, China

TH1.R13 - Microwave Radiometer Thursday, October 1, 05:00 - 07:00 • Room 13 Calibration and RFI I

TH1.R13.1: ANALYSIS OF FIVE-YEAR AMSR2 BRIGHTNESS TEMPERATURE USING THE HISTOGRAMS OF COLD MEASUREMENTS

[Huang, Xiaoqi](#), National Ocean Technology Center, China [Zhu, Jianhua](#), National Ocean Technology Center, China [Wang, He](#), National Ocean Technology Center, China [Zhai, Wanlin](#), National Ocean Technology Center, China

TH1.R13.2: ESTIMATING NEDT OF ON-ORBIT ATMS

[Yang, John Xun](#), University of Maryland, United States [Yang, Hu](#), University of Maryland, United States

TH1.R13.3: PRE-LAUNCH PERFORMANCE OF THE ADVANCED TECHNOLOGY MICROWAVE SOUNDER (ATMS) ON THE JOINT POLAR SATELLITE SYSTEM-2 SATELLITE (JPSS-2)

[Kim, Edward](#), NASA, United States [Leslie, Vincent](#), MIT Lincoln Laboratory, United States [Lyu, Joseph](#), MSG NASA/GESTAR, United States [Smith, Craig](#), KBR Wyle, United States [Osaretin, Idahosa](#), MIT Lincoln Laboratory, United States [Abraham, Saji](#), KBR Wyle, United States [Sammons, Matt](#), Fibertek, United States [Anderson, Kent](#), Northrop Grumman, United States [Amato, Joel](#), Northrop Grumman, United States [Fuentes, James](#), Northrop Grumman, United States [Hernquist, Mark](#), Northrop Grumman, United States [Landrum, Mike](#), Northrop Grumman, United States [Rodriguez-Gutierrez, Fabian](#), Northrop Grumman, United States [Kam, James](#), Northrop Grumman, United States [Cho, Peter](#), Northrop Grumman, United States [Yang, Hu](#), NOAA, United States [Liu, Quanhua \(Mark\)](#), NOAA, United States [Sun, Ninghai](#), NOAA, United States

TH1.R13.4: ACCURACY: ADAPTIVE CALIBRATION OF CUBESAT RADIOMETER CONSTELLATIONS

[Aksoy, Mustafa](#), University at Albany, State University of New York, United States [Bradburn, John](#), University at Albany, State University of New York, United States

TH1.R13.5: ANALYSIS OF SYSTEM LINEARITY CAUSED BY GAIN VARIATION FOR MICROSATBASED MICROWAVE RADIOMETER

[He, Jieying](#), National Space Science Center, Chinese Academy of Sciences, China [Zhang, Shengwei](#), National Space Science Center, Chinese Academy of Sciences, China

TH1.R13.6: EVALUATION OF DIRECT RF SAMPLING HYPERSPECTRAL MICROWAVE RADIOMETER (DSMRAD)

[Maeda, Takashi](#), Japan Aerospace Exploration Agency, Japan [Kawaguchi, Noriyuki](#), National Astronomical Observatory of Japan, Japan

TH1.R13.7: RFI MITIGATION USING A NEW COMB FILTER FOR WIDEBAND AUTOCORRELATION RADIOMETRY

[Salim, Maryam](#), University of Michigan, United States [Mousavi, Seyedmohammad](#), University of Michigan, United States [De Roo, Roger](#), University of Michigan, United States [Sarabandi, Kamal](#), University of Michigan, United States

TH1.R13.8: INTERCALIBRATION OF FY-3C MWRI OVER FOREST WARM-SCENES USING MICROWAVE RADIATIVE TRANSFER MODEL

[Zhang, Wen-Liang](#), Fudan University, China [Jiang, Geng-Ming](#), Fudan University, China

TH1.R13.9: EVALUATION AND ASSIMILATION OF FY-3C MWHTS FOR RAMMASUN

[He, Jieying](#), National Space Science Center, Chinese Academy of Sciences, China [Guo, Yang](#), National Space Science Center, Chinese Academy of Sciences, China [Zhang, Shengwei](#), National Space Science Center, Chinese Academy of Sciences, China

TH1.R14 - Data Management and Education II Thursday, October 1, 05:00 - 07:00 • Room 14

TH1.R14.1: THE CORDINET PROJECT: ANALYSIS OF THE BARRIERS LIMITING A MORE DIFFUSE AND SYSTEMATIC USE OF EARTH OBSERVATION COPERNICUS-BASED SOLUTIONS

[Lacava, Teodosio](#), Institute of Methodologies for Environmental Monitoring (IMAA-CNR), Italy [Bernardini Papalia, Lucio](#), Technologies for Earth Observation and Natural Risks Consortium (TeRN), Italy [Paradiso, Iole Federica](#), Technologies for Earth Observation and Natural Risks Consortium (TeRN), Italy [Proto, Monica](#), Institute of Methodologies for Environmental Monitoring (IMAA-CNR), Italy [Pergola, Nicola](#), Institute of Methodologies for Environmental Monitoring (IMAA-CNR), Italy

TH1.R14.2: CONTINUING EDUCATION UNITS (CEUS) FOR NASA'S GLOBAL LEARNING AND OBSERVATIONS TO BENEFIT THE ENVIRONMENT (GLOBE) WORLD WIDE PROGRAM

[Hayden, Linda](#), Elizabeth City State University, United States [Walthall, Steffi](#), Elizabeth City State University, United States [Harris, Garry](#), GLOBE PROGRAM, United States [Hathaway, Wanda](#), Elizabeth City State University, United States [Wood, Jeffrey](#), Elizabeth City State University, United States [Hathaway, Jessica](#), Elizabeth City State University, United States

TH1.R14.3: INTRODUCTION TO POSTGRADUATE EDUCATION OF REMOTE SENSING IN CHINA

[Li, Yalan](#), Jiangsu Normal University, China [Zhang, Chenze](#), Jiangsu Normal University, China [Ma, Qingmiao](#), Jiangsu Normal University, China [Li, Yingjie](#), Jiangsu Normal University, China [Xue, Yong](#), China University of Mining and Technology, China [Li, Jinzhi](#), Jiangsu Normal University, China [Li, Ming](#), Jiangsu Normal University, China [Huang, Jing](#), Jiangsu Normal University, China

TH1.R14.4: QUALITY ANALYSIS OF THE VIIRS LAI/FPAR TIME-SERIES

[Pu, Jiabin](#), School of Land Science and Technology, China University of Geosciences, China [Yan, Kai](#), School of Land Science and Technology, China University of Geosciences, China [Zhang, Yiman](#), School of Land Science and Technology, China University of Geosciences, China [Xu, Linlin](#), School of Land Science and Technology, China University of Geosciences, China

TH1.R14.5: IMPROVING STUDENT LEARNING OF SENSOR RELATED COURSES USING INNOVATIVE PROJECTS

[Fan, Hua](#), University of Electronic Science and Technology of China, China [Wang, Jiangming](#), University of Electronic Science and Technology of China, China [Xing, Dezhi](#), Chongqing United Microelectronics Center, China [Zhang, Ke](#), Chengdu HiWafer Semiconductor Co., Ltd., China [Zhang, Jia](#), Shanghai Anlogic Info Technology Co., Ltd, China [Feng, Quanyuan](#), School of Information Science and Technology, Southwest Jiaotong University, China

TH1.R14.6: FINE-SCALE POPULATION DISTRIBUTIONS MAPPING BASED ON REMOTE SENSING AND SOCIAL SENSING DATA

[Wang, Jinyun](#), Beijing Normal University, China [Pan, Yaozhong](#), Beijing Normal University, China [Ji, Zhonglin](#), Beijing Normal University, China [Zhang, Dujuan](#), Beijing Normal University, China

TH1.R14.7: MAJORIZE-MINIMIZATION BASED SUPER-RESOLUTION METHOD FOR RADAR FORWARD-LOOKING IMAGING

[Zhang, Qiping](#), University of Electronic Science and Technology of China, China [Zhang, Yin](#), University of Electronic Science and Technology of China, China [Zhang, Yongchao](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Li, Wenchao](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

**TH1.R15 - Passive Optical,
Hyperspectral Sensors and
Calibration III**

Thursday, October 1, 05:00 - 07:00 • Room 15

TH1.R15.1: OCO-2 CALIBRATION REFINEMENT ACROSS VERSIONS AND PLANS FOR OCO-3

[Rosenberg, Robert](#), NASA Jet Propulsion Laboratory, United States [Chapsky, Lars](#), NASA Jet Propulsion Laboratory, United States [Crisp, David](#), NASA Jet Propulsion Laboratory, United States [Keller, Graziela](#), NASA Jet Propulsion Laboratory, United States [Lee, Richard](#), NASA Jet Propulsion Laboratory, United States [Marchetti, Yuliya](#), NASA Jet Propulsion Laboratory, United States [Yu, Shanshan](#), NASA Jet Propulsion Laboratory, United States [Eldering, Annmarie](#), NASA Jet Propulsion Laboratory, United States

TH1.R15.2: DEVELOPMENT OF A HIGH-FIDELITY CLARREO PATHFINDER SIMULATOR

[Wu, Wan](#), SSAI, United States [Liu, Xu](#), NASA Langley Research Center, United States [Yang, Qiguang](#), SSAI, United States [Goldin, Daniel](#), SSAI, United States [Shea, Yolanda](#), NASA Langley Research Center, United States [Currey, Jon](#), NASA Langley Research Center, United States [Bartle, Aron](#), SSAI, United States [Lukashin, Constantine](#), NASA Langley Research Center, United States

TH1.R15.3: NOAA-20/S-NPP VIIRS SENSOR DATA RECORD ON-ORBIT PERFORMANCE UPDATES AND RECENT IMPROVEMENTS

[Wang, Wenhui](#), University of Maryland - College Park, United States [Cao, Changyong](#), National Oceanic and Atmospheric Administration, United States [Blonski, Slawomir](#), Global Science and Technology Inc., United States [Gu, Yalong](#), Global Science and Technology Inc., United States [Zhang, Bin](#), University of Maryland - College Park, United States [Upreti, Sirish](#), University of Maryland - College Park, United States [Choi, Taeyoung](#), Global Science and Technology Inc., United States [Xi, Shao](#), University of Maryland - College Park, United States

TH1.R15.4: MONITORING OF THE CROSS-CALIBRATION BIASES BETWEEN THE S-NPP AND NOAA-20 VIIRS SENSOR DATA RECORDS USING GOES ADVANCED BASELINE IMAGER AS A TRANSFER

[Huang, Jingfeng](#), NOAA, United States [Yan, Banghua](#), NOAA, United States [Sun, Ninghai](#), NOAA, United States

TH1.R15.5: NOAA-20 VIIRS REFLECTIVE SOLAR BANDS ON-ORBIT CALIBRATION USING A HYBRID APPROACH

[Sun, Junqiang](#), Science and System Applications, Inc, United States [Xiong, Xiaoxiong](#), NASA, United States

TH1.R15.6: LAPAN'S MID WAVELENGTH INFRARED CAMERA MODULE

[Arifin, Bustanul](#), Indonesia National Institute of Aeronautics and Space (LAPAN), Indonesia

[Tahir, Andi Mukhtar](#), Indonesia National Institute of Aeronautics and Space (LAPAN), Indonesia [Priyanto, Irwan](#), Indonesia National Institute of Aeronautics and Space (LAPAN), Indonesia

[TH1.R15.7: SEASONAL VARIATION IN THE MEASUREMENT OF GOES-16 ABI CHANNEL-TO-CHANNEL REGISTRATION](#)

[Tan, Bin](#), Science Systems and Applications, Inc, United States [Wolfe, Robert](#), NASA Goddard Space Flight Center, United States [Reth, Alan](#), Chesapeake Aerospace, LLC, United States [Dellomo, John](#), Global Science and Technology Inc., United States

[TH1.R15.8: SNPP AND NOAA-20 GLOBAL INTER-SENSOR BIAS ASSESSMENTS WITHIN ICVS FRAMEWORK USING 32-DAY AVERAGED DIFFERENCE METHOD](#)

[Yan, Banghua](#), NOAA STAR, United States [Goldberg, Mitch](#), NOAA JPSS, United States [Jin, Xin](#), Global Science and Technology Inc., United States [Huang, Jingfeng](#), Global Science and Technology Inc., United States [Sun, Ninghai](#), Global Science and Technology Inc., United States [Liang, Ding](#), Global Science and Technology Inc., United States [Porter, Warren](#), Global Science and Technology Inc., United States [Zhou, Lihang](#), NOAA JPSS, United States

[TH1.R15.9: RAILROAD VALLEY RADIOMETRIC CALIBRATION TEST SITE \(RADCATS\) AS PART OF A GLOBAL RADIOMETRIC CALIBRATION NETWORK \(RADCALNET\)](#)

[Czapla-Myers, Jeffrey](#), University of Arizona, United States [Thome, Kurtis](#), NASA, United States [Wenny, Brian](#), SSAI, United States [Anderson, Nikolaus](#), University of Arizona, United States

[TH1.R15.10: AUSTRALIA, A HUB FOR SPACEBORNE IMAGING SPECTROSCOPY CALIBRATION AND VALIDATION](#)

[Ong, Cindy](#), CSIRO, Australia [Lau, Ian](#), CSIRO, Australia [Malthus, Tim](#), CSIRO, Australia [Fearn, Peter](#), Curtin University, Australia

TH1.R16 - Spaceborne Imaging Techniques

Thursday, October 1, 05:00 - 07:00 • Room 16

[TH1.R16.1: GAP-FILLING BASED ON EOF ANALYSIS OF SPATIO-TEMPORAL COVARIANCE OF SATELLITE IMAGE DERIVED DISPLACEMENT TIME SERIES](#)

[Hippert-Ferrer, Alexandre](#), LISTIC, Université Savoie Mont-Blanc, France [Yan, Yajing](#), LISTIC, Université Savoie Mont-Blanc, France [Bolon, Philippe](#), LISTIC, Université Savoie Mont-Blanc, France

[TH1.R16.2: VARIABLE RESOLUTION SYNTHETIC APERTURE RADAR IMAGING SYSTEM](#)

[Xu, Hanyang](#), Fudan University, China [Xu, Feng](#), Fudan University, China [Jin, Yaqiu](#), Fudan University, China

[TH1.R16.3: AN EFFICIENT AREA-BASED ALGORITHM FOR SAR RADIOMETRIC TERRAIN CORRECTION AND MAP PROJECTION](#)

[Shiroma, Gustavo H. X.](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Agram, Piyush](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Fattahi, Heresh](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Lavalley, Marco](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Burns, Ryan](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Buckley, Sean](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

[TH1.R16.4: PRELIMINARY RESULT OF MIMO SAR TOMOGRAPHY VIA 3D FFBP](#)

[Li, Linghao](#), Beijing Institute of Technology, China [Wang, Yan](#), Beijing Institute of Technology, China [Ding, Zegang](#), Beijing Institute of Technology, China [Liu, Minkun](#), Beijing Institute of Technology, China [Zeng, Tao](#), Beijing Institute of Technology, China [Long, Teng](#), Beijing Institute of Technology, China

[TH1.R16.5: A REAL-TIME IMAGING PROCESSING METHOD BASED ON MODIFIED RMA WITH SUB-APERTURE IMAGES FUSION FOR SPACEBORNE SPOTLIGHT SAR](#)

[Zhou, Fang](#), School of Computer and Information, China [Yang, Jun](#), School of Computer and Information, China [Sun, Guangcai](#), National Key Lab of Radar Signal Processing, China [Zhang, Jiajia](#), Key Laboratory of Aperture Array and Space Application, China

[TH1.R16.6: IMAGING OF MULTI-CHANNEL SLIDING SPOTLIGHT SAR WITH UP- AND](#)

DOWN-CHIRP MODULATION FOR RANGE AMBIGUITY SUPPRESSION

[Miyamoto, Mayu](#), Mitsubishi Electric Corporation, Japan [Oishi, Noboru](#), Mitsubishi Electric Corporation, Japan [Tsuchida, Masayoshi](#), Mitsubishi Electric Corporation, Japan [Nakamura, Shohei](#), Mitsubishi Electric Corporation, Japan [Suwa, Kei](#), Mitsubishi Electric Corporation, Japan

TH1.R16.7: TIME-DOMAIN SAR PROCESSOR FOR SENTINEL-1 TOPS DATA

[Anghel, Andrei](#), University Politehnica of Bucharest, Romania [Cacoveanu, Remus](#), EOS Electronic Systems / University Politehnica of Bucharest, Romania [Rommen, Bjorn](#), European Space Agency (ESA-ESTEC), Netherlands [Datcu, Mihai](#), German Aerospace Center (DLR) / University Politehnica of Bucharest, Germany

TH1.R16.8: AN EFFICIENT MEO SAR IMAGING ALGORITHM BASED ON OPTIMAL IMAGING COORDINATE SYSTEM

[Liu, Wenkang](#), Xidian University, China [Sun, Guang-Cai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Pascasio, Vito](#), Università di Napoli "Parthenope", Italy

TH1.R16.9: DERIVING VELOCITY FIELDS OF SUBMESOSCALE EDDIES USING MULTI-SENSOR IMAGERY

[Yanovsky, Igor](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Holt, Benjamin](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Ayoub, Francois](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

TH1.R16.10: MULTICHANNEL SLIDING SPOTLIGHT SAR IMAGING: FIRST RESULT OF GF-3 SATELLITE

[Fang, Tingzhu](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Deng, Yunkai](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Liang, Da](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Lei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhang, Heng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Fan, Huaitao](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Yu, Weidong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

TH1.R16.11: AN IMPROVED SPECKLE FILTER FOR SENTINEL-1 SAR IMAGE PROCESSING

[Tan, Songxin](#), South Dakota State University, United States [Klemisch, Adam](#), South Dakota State University, United States [Groeneveld, David](#), Advanced Remote Sensing Inc., United States

TH1.R17 - Learning and Adaptive Methods for Image Clustering Thursday, October 1, 05:00 - 07:00 • Room 17

TH1.R17.1: PATCH BASED LAND COVER CLASSIFICATION: A COMPARISON OF DEEP LEARNING, SVM AND NN CLASSIFIERS

[Pal, Mahesh](#), National Institute of Technology, Kurukshetra, India [Poriya, Akshay](#), National Institute of Technology, Kurukshetra, India [Rohilla, Himanshu](#), National Institute of Technology, Kurukshetra, India [Charan Teja, B.](#), National Institute of Technology, Kurukshetra, India

TH1.R17.2: A LEARNABLE BLUR KERNEL FOR REMOTE SENSING IMAGE RETRIEVAL

[Peng, Zelin](#), Xidian University, China [Wang, Guanchun](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Tang, Xu](#), Xidian University, China [Gao, Li](#), State Key Laboratory of Geo-information Engineering, China [Jiao, Licheng](#), Xidian University, China

TH1.R17.3: INTEGRATION OF SENTINEL 1 AND 2 OBSERVATIONS FOR MAPPING EARLY AND LATE SOWING OF SOYBEAN AND COTTON CROP USING DEEP LEARNING

[Mohite, Jayantrao](#), Tata Consultancy Services, India [Sawant, Suryakant](#), Tata Consultancy Services, India [Pandit, Ankur](#), Tata Consultancy Services, India [Pappula, Srinivasu](#), Tata Consultancy Services, India

TH1.R17.4: END-TO-END DEEP LEARNING SEMANTIC CLASSIFICATION ARCHITECTURE FOR REMOTE SENSING IMAGERY

[Gu, Haiyan](#), Chinese Academy of Surveying and Mapping, China [Yang, Yi](#), Chinese Academy of Surveying and Mapping, China [Han, Yanshun](#), Chinese Academy of Surveying and Mapping, China [Li, Haitao](#), Chinese Academy of Surveying and Mapping, China [Tang, Ying](#), Lanzhou Jiaotong University, China

TH1.R17.5: PYRAMID CONVOLUTIONAL NEURAL NETWORKS AND BOTTLENECK RESIDUAL MODULES FOR CLASSIFICATION OF MULTISPECTRAL IMAGES

[Huang, Yukun](#), Jiangxi University of Finance and Economics, China [Wei, Jingbo](#), Nanchang University, China [Tang, Wenchao](#), Nanchang University, China [He, Chaoqi](#), Nanchang University, China

TH1.R17.6: SAMPLING SUBJECTIVE POLYGONS FOR PATCH-BASED DEEP LEARNING LAND-USE CLASSIFICATION IN SATELLITE IMAGES

[Arndt, Jacob](#), Oak Ridge National Laboratory, United States [Lunga, Dalton](#), Oak Ridge National Laboratory, United States

TH1.R17.7: SIMILAR REGION RECOMMENDATION BASED ON HISTOGRAM FEATURES

[Liu, Qiankun](#), University of Electronic Science and Technology of China, China [Liu, Qiang](#), University of Electronic Science and Technology of China, China [Xu, Dingyou](#), University of Electronic Science and Technology of China, China [He, Jing](#), University of Electronic Science and Technology of China, China [Mao, Yukun](#), University of Electronic Science and Technology of China, China

TH1.R17.8: A CYCLE GAN APPROACH FOR HETEROGENEOUS DOMAIN ADAPTATION IN LAND USE CLASSIFICATION

[Voreiter, Claire](#), Université Bretagne Sud, France [Burnel, Jean-Christophe](#), Université Bretagne Sud, France [Lassalle, Pierre](#), Centre National d'Etudes Spatiales (CNES), France [Spigai, Marc](#), Thales Alenia Space, France [Hugues, Romain](#), Thales Alenia Space, France [Courty, Nicolas](#), Université Bretagne Sud, France

TH1.R17.9: FROM SUPERVISED TO UNSUPERVISED LEARNING FOR LAND COVER ANALYSIS OF SENTINEL-2 MULTISPECTRAL IMAGES.

[Saha, Jayasree](#), Indian Institute of Technology Kharagpur, India [Khanna, Yuvraj](#), Indian Institute of Technology Kharagpur, India [Mukhopadhyay, Jayanta](#), Indian Institute of Technology Kharagpur, India [Aikat, Subhas](#), Indian Institute of Technology Kharagpur, India

TH1.R17.10: DEEP CONVOLUTIONAL NEURAL NETWORK FOR MANGROVE MAPPING

[Iovan, Corina](#), Institut de Recherche pour le Développement, France [Kulbicki, Michel](#), Institut de Recherche pour le Développement, France [Mermet, Eric](#), École des hautes études en sciences sociales, France

TH1.R17.11: APPROACHING REMOTE SENSING IMAGE CLASSIFICATION WITH ENSEMBLES OF SUPPORT VECTOR MACHINES ON THE D-WAVE QUANTUM ANNEALER

[Cavallaro, Gabriele](#), Forschungszentrum Jülich, Germany [Willsch, Dennis](#), Forschungszentrum Jülich, Germany [Willsch, Madita](#), Forschungszentrum Jülich, Germany [Michielsen, Kristel](#), Forschungszentrum Jülich, Germany [Riedel, Morris](#), Forschungszentrum Jülich, Germany

TH1.R18 - Analysis of Multitemporal Images

Thursday, October 1, 05:00 - 07:00 • Room 18

TH1.R18.1: A SAR-BASED FEASIBILITY STUDY ON DETECTION OF OIL SEEPAGE FROM BURIED PIPELINES

[Guida, Raffaella](#), Surrey Space Centre, United Kingdom [Amitrano, Donato](#), Surrey Space Centre, United Kingdom [Iervolino, Pasquale](#), Surrey Space Centre, United Kingdom [Jenney, Lorraine](#), DNV GL, United Kingdom [Wright, Louise](#), National Physical Laboratory, United Kingdom

TH1.R18.2: POLARIMETRIC SCATTERING CHARACTERISTIC ANALYSIS OF DISASTER AFFECTED AREA BASED ON HUYNEN-EULER PARAMETERS

[Liang, Liting](#), National Space Science Center, Chinese Academy of Sciences, China [Zhang, Yunhua](#), National Space Science Center, Chinese Academy of Sciences, China [Li, Dong](#), National Space Science Center, Chinese Academy of Sciences, China

TH1.R18.3: ENHANCING CONVENTIONAL SAR CHANGE DETECTION PERFORMANCE WITH APODIZATION

[Vu, Viet Thuy](#), Blekinge Institute of Technology, Sweden [Pettersson, Mats](#), Blekinge Institute of Technology, Sweden [Sjögren, Thomas](#), Swedish Defense Research Agency, Sweden

TH1.R18.4: LANDSLIDE DETECTION BASED ON GLCM USING SAR IMAGES

[Li, Baihui](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Lu, Youchun](#), China Center for Resources Satellite Data and Application, China [Ma, Cunshi](#), University of Electronic Science and Technology of China, China

TH1.R18.5: DEFORMATION VELOCITY MONITORING IN KUNMING CITY USING ASCENDING AND DESCENDING SENTINEL-1A DATA WITH SBAS-INSAR TECHNIQUE

[Guo, Shipeng](#), Southwest Forestry University, China [Ji, Yongjie](#), Southwest Forestry University, China [Tian, Xin](#), Chinese Academy of Forestry, China [Zhang, Wangfei](#), Southwest Forestry University, China [Kang, Wei](#), Southwest Forestry University, China [Li, Yun](#), Southwest Forestry University, China [Zhang, Tingwei](#), Southwest forestry university, China

TH1.R18.6: CHANGE DETECTION AND SIGNATURE CLASSIFICATION FOR SAR GMTI

[Vu, Viet Thuy](#), Blekinge Institute of Technology, Sweden [Pettersson, Mats](#), Blekinge Institute of Technology, Sweden [Sjögren, Thomas](#), Swedish Defense Research Agency, Sweden

TH1.R18.7: EXTENDING THE FOLKI-PIV ALGORITHM FOR THE COHERENT COREGISTRATION OF SAR IMAGES

[Ribalta, Angel](#), Fraunhofer FHR, Germany

TH1.R18.8: SNOW CHARACTERIZATION AND AVALANCHE DETECTION IN THE INDIAN HIMALAYA

[Patil, Akshay](#), Indian Institute of Technology Bombay, India [Singh, Gulab](#), Indian Institute of Technology Bombay, India [Kumar, Sanjeev](#), Snow and Avalanche Study Establishment, India [Mani, Sneha](#), Snow and Avalanche Study Establishment, India [Bandyopadhyay, Debmita](#), Indian Institute of Technology Bombay, India [Nela, Bala Raju](#), Indian Institute of Technology Bombay, India [Musthafa, Mohamed](#), Indian Institute of Technology Bombay, India [Mohanty, Shradha](#), Indian Institute of Technology Bombay, India

TH1.R18.9: AN AUTOMATIC SPECTRAL RULE-BASED SYSTEM FOR REAL-TIME THERMAL ANOMALIES DETECTION USING GOES-16 ABI DATA

[de Carvalho, Luiz F.](#), Visiona Space Technology, Brazil [Laneve, Giovanni](#), University of Rome, Italy [Baraldi, Andrea](#), Italian Space Agency, Italy [Santilli, Giancarlo](#), University of Brasilia, Brazil

TH1.R18.10: EVALUATION OF SPATIAL-TEMPORAL VARIATION OF VEGETATION RESTORATION IN DEXING COPPER MINE AREA USING REMOTE SENSING DATA

[Zhang, Xiangwen](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Liu, Rongyuan](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Gan, Fuping](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Wang, Wei](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Ding, Ling](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Yan, Bokun](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China

TH1.R18.11: MERRAMAX: A MACHINE LEARNING APPROACH TO STOCHASTIC CONVERGENCE WITH A MULTI-VARIATE DATASET

[Carroll, Mark](#), NASA, United States [Schnase, John](#), NASA, United States [Gill, Roger](#), NASA, United States [Tamkin, Glenn](#), NASA, United States [Li, Jian](#), NASA, United States [Maxwell, Thomas](#), NASA, United States [Strong, Savannah](#), NASA, United States [Aronne, Mary](#), NASA, United States

TH1.R19 - Atmospheric Sounding: Thursday, October 1, 05:00 - 07:00 • Room 19 Missions, Technology, Methods and Applications

TH1.R19.1: MONITORING RAPID CHANGE IN THE ATMOSPHERE USING CYGNSS

WIND SPEED MEASUREMENTS

[Bringer, Alexandra](#), The Ohio State University, United States [Al-Khadi, Mohammad](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Park, Jeonghwan](#), NOAA, United States

TH1.R19.2: NUCAPS HYPERSPECTRAL INFRARED ATMOSPHERIC SOUNDING PRODUCT SYSTEM: PRODUCTS, PERFORMANCE, AND ALGORITHM REFINEMENTS FOR IASI-NG

[Divakarla, Murty](#), IMISG@NOAA, United States [Kalluri, Satya](#), Center for Satellite Applications and Research, United States [Pryor, Ken](#), Center for Satellite Applications and Research, United States [Barnet, Chris](#), STC, Inc., United States [Tan, Changyi](#), IMISG@NOAA, United States [Wilson, Mike](#), IMISG@NOAA, United States [Zhu, Tong](#), IMISG@NOAA, United States [Warner, Juying](#), University of Maryland, United States [Nalli, Nick](#), IMISG@NOAA, United States [Wang, Tianyuan](#), IMISG@NOAA, United States [Wolf, Walter](#), Center for Satellite Applications and Research, United States [Zhou, Lihang](#), Center for Satellite Applications and Research, United States

TH1.R19.3: ESTIMATION OF LOCATION AND INTENSITY OF TROPICAL CYCLONES BASED ON MICROWAVE SOUNDING INSTRUMENTS

[Hu, Hao](#), Chinese Academy of Meteorological Sciences, China [Weng, Fuzhong](#), Chinese Academy of Meteorological Sciences, China

TH1.R19.4: DETECTION AND CHARACTERIZATION OF IONOSPHERIC ACTIVITY AT HIGH LATITUDE FROM SAR MEASUREMENTS

[Mainvis, Aymeric](#), ONERA - The French Aerospace Lab, France [Fabbro, Vincent](#), ONERA - The French Aerospace Lab, France

TH1.R19.5: APPLICATIONS OF QUALITY CONTROL PROCEDURES FOR TEMPERATURE AND HUMIDITY PROFILES RETRIEVED FROM GROUND-BASED MICROWAVE RADIOMETER

[Fu, Xinshu](#), Shanghai Ecological Forecasting and Remote Sensing Center, China [Gou, Yabin](#), Hangzhou Meteorological Bureau, China [Wang, Xiaofeng](#), Shanghai Ecological Forecasting and Remote Sensing Center, China [Peng, Jie](#), Shanghai Ecological Forecasting and Remote Sensing Center, China

TH1.R19.6: MISSION OPERATIONS AND SCIENCE PLAN FOR THE MEZNSAT CUBESAT MISSION FOR GREENHOUSE GASES MONITORING

[Issa, Hamzeh](#), Khalifa University of Science and Technology, United Arab Emirates [Marpu, Prashanth](#), Khalifa University of Science and Technology, United Arab Emirates [Jallad, Abdul-Halim](#), American University of Ras Al Khaimah Ras Al Khaimah, United Arab Emirates [Al Marar, Abdulla](#), UAE Space Agency, United Arab Emirates

TH1.R19.7: THE RETRIEVAL OF SURFACE ATMOSPHERIC PRESSURE OVER THE OCEANS USING 50-60 GHZ AND 118.75 GHZ PASSIVE MICROWAVE OBSERVATIONS

[Zhang, Zijin](#), National Space Science Center, Chinese Academy of Sciences, China [Dong, Xiaolong](#), National Space Science Center, Chinese Academy of Sciences, China

TH1.R19.8: FMCW RADAR IN THE DIGITAL AGE: A SYNTHESISER BASED RADAR WIND PROFILER SIGNAL GENERATION

[Klugmann, Dirk](#), S&AO Ltd, United Kingdom [Chindea, Stefan](#), University of Bath, United Kingdom [Watson, Robert](#), University of Bath, United Kingdom

TH1.R19.9: SUBMILLIMETER WAVE DIFFERENTIAL ABSORPTION RADAR FOR WATER VAPOR SOUNDING IN THE MARTIAN ATMOSPHERE

[Pradhan, Omkar](#), NASA Jet Propulsion Laboratory, United States [Cooper, Ken](#), NASA Jet Propulsion Laboratory, United States [Tampari, Leslie](#), NASA Jet Propulsion Laboratory, United States [Drouin, Brian](#), NASA Jet Propulsion Laboratory, United States [Monje, Raquel](#), NASA Jet Propulsion Laboratory, United States [Roy, Richard](#), NASA Jet Propulsion Laboratory, United States [Siles, Jose](#), NASA Jet Propulsion Laboratory, United States [Cochrane, Corey](#), NASA Jet Propulsion Laboratory, United States

TH1.R19.10: TOWARDS A MASS-CONSISTENT METHODOLOGY FOR REALISTIC MELTING HYDROMETEOR RETRIEVAL

[Kuo, Kwo-Sen](#), University of Maryland, United States [Loftus, Adrian](#), University of Maryland,

United States [Olson, William](#), University of Maryland,-Baltimore County, United States
[Schrom, Robert](#), Universities Space Research Association, United States [Johnson, Benjamin](#),
 University Corporation for Atmospheric Research, United States [Adams, Ian](#), NASA Goddard
 Space Flight Center, United States

[TH1.R19.11: VTEC AT LOW LATITUDE STATION USING GALILEO PSEUDORANGE](#)

[Panimboza, Jonathan](#), Universidad de las Fuerzas Armadas ESPE, Ecuador [Tierra, Alfonso](#),
 Universidad de las Fuerzas Armadas ESPE, Ecuador

[TH1.R19.12: SPATIAL AND TEMPORAL CHARACTERISTICS OF SEA FOG IN YELLOW SEA AND BOHAI SEA BASED ON ACTIVE AND PASSIVE REMOTE SENSING](#)

[Wan, Jianhua](#), China University of Petroleum (East China), China [Su, Jing](#), China University of
 Petroleum (East China), China [Sheng, Hui](#), China University of Petroleum (East China), China
[Liu, Shanwei](#), China University of Petroleum (East China), China [Li, Jiajia](#), China university of
 petroleum (east China), China

TH2.R1 - Soil Properties

Thursday, October 1, 07:30 - 09:30 • Room 1

[TH2.R1.1: EFFECT OF SPATIAL RESOLUTION ON SOIL PROPERTIES RETRIEVAL FROM IMAGING SPECTROSCOPY: AN ASSESSMENT OF THE HYPERSPECTRAL CHIME MISSION POTENTIAL](#)

[Casa, Raffaele](#), University of Tuscia, Italy [Pignatti, Stefano](#), CNR, Italy [Pascucci, Simone](#), CNR,
 Italy [Huang, Wenjiang](#), Chinese Academy of Sciences, China [Pepe, Monica](#), CNR, Italy

[TH2.R1.2: CLAY CONTENT MAPPING USING SOIL MOISTURE PRODUCTS DERIVED FROM A SYNERGETIC USE OF SENTINEL-1 AND SENTINEL-2 DATA](#)

[Bousbih, Safa](#), Centre d'Etudes Spatiales de la Biosphère, France [Zribi, Mehrez](#), Centre
 d'Etudes Spatiales de la Biosphère, France [Chabaane Lili, Zohra](#), Institut National
 Agronomique de Tunisie, Tunisia [Baghdadi, Nicolas](#), Institut national de recherche en
 agriculture, alimentation et environnement, France [Gorrah, Azza](#), Centre d'Etudes Spatiales
 de la Biosphère, France [Ben Aissa, Nadhira](#), Institut National Agronomique de Tunisie, Tunisia

[TH2.R1.3: SENTINEL-1 IMAGERY INCORPORATING MACHINE LEARNING FOR DRYLAND SALINITY MONITORING: A CASE STUDY IN ESPERANCE, WESTERN AUSTRALIA](#)

[Zhang, Qianqian](#), China Agricultural University, China [Zhou, Zheng-Shu](#), Commonwealth
 Scientific and Industrial Research Organisation, Australia [Caccetta, Peter](#), Commonwealth
 Scientific and Industrial Research Organisation, Australia [Simons, John](#), Department of
 Primary Industries and Regional Development, Australia [Li, Li](#), China Agricultural University,
 China

[TH2.R1.4: OMP-BASED ALGORITHM FOR MINERAL REFLECTANCE SPECTRA DECONVOLUTION FROM HYPERSPECTRAL IMAGES](#)

[Rialland, Ronan](#), French Alternative Energies and Atomic Energy Commission (CEA), France
[Soussen, Charles](#), CentraleSupélec, Université Paris-Saclay, France [Marion, Rodolphe](#), French
 Alternative Energies and Atomic Energy Commission (CEA), France [Carrère, Véronique](#),
 Université Nantes, France

[TH2.R1.5: SOIL MOISTURE ESTIMATION BASED ON LANDSAT-8 AND MODIS IN THE UPSTREAM OF LUAN RIVER BASIN, CHINA](#)

[Li, Rui](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China
[Shi, Jiancheng](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences,
 China [Zhao, Tianjie](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of
 Sciences, China [Wang, Tianxing](#), Institute of Remote Sensing and Digital Earth, Chinese
 Academy of Sciences, China [Lu, Shanlong](#), Institute of Remote Sensing and Digital Earth,
 Chinese Academy of Sciences, China

[TH2.R1.6: SPATIAL DOWNSCALING OF LAND SURFACE TEMPERATURE BASED ON SURFACE ENERGY BALANCE](#)

[Hu, Yongxin](#), College of Resources and Environment, University of Chinese Academy of
 Sciences, China [Tang, Ronglin](#), State Key Laboratory of Resources and Environment
 Information System, Institute of Geographic Sciences and Natural Resources Research,
 Chinese Academy of Sciences, China [Jiang, Xiaoguang](#), College of Resources and

Environment, University of Chinese Academy of Sciences, China [Li, Zhao-Liang](#), State Key Laboratory of Resources and Environment Information System, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Jiang, Yazhen](#), State Key Laboratory of Resources and Environment Information System, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China [Liu, Meng](#), Key Laboratory of Agricultural Remote Sensing, Ministry of Agriculture/Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences, China

TH2.R1.7: ELECTROMAGNETIC SCATTERING BEHAVIOR OF A NEW ORGANIC SOIL DIELECTRIC MODEL FOR LONG-WAVELENGTH RADAR RETRIEVAL OF PERMAFROST ACTIVE LAYER SOIL PROPERTIES

[Bakian-Dogaheh, Kazem](#), University of Southern California, United States [Chen, Richard](#), NASA Jet Propulsion Laboratory, United States [Moghaddam, Mahta](#), University of Southern California, United States [Tabatabaeejad, Alireza](#), University of Southern California, United States

TH2.R1.8: MONITORING SOILWATER AND ORGANIC CARBON STORAGE PATTERNS AT THE ARCTIC FOOTHILLS, ALASKA, USING INSAR

[Wu, Yue](#), University of Texas at Austin, United States [Chen, Jingyi](#), University of Texas at Austin, United States [O'Connor, Michael](#), University of Texas at Austin, United States [Ferencz, Stephen](#), University of Texas at Austin, United States [Kling, George](#), University of Michigan, United States [Cardenas, M. Bayani](#), University of Texas at Austin, United States

**TH2.R2 - Analytic Center
Frameworks for Monitoring and
Assessing Disasters at Diverse Spatiotemporal Scales**

Thursday, October 1, 07:30 - 09:30 • Room 2

TH2.R2.1: THE QUAKES ANALYTIC CENTER FRAMEWORK FOR ADDRESSING DIVERSE SPATIOTEMPORAL SCALES OF TECTONIC AND EARTHQUAKE PROCESSES

[Donnellan, Andrea](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Parker, Jay](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Granat, Robert](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Glasscoe, Margaret](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Hawkins, Brian](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Rundle, John](#), University of California, Davis, United States [Grant Ludwig, Lisa](#), University of California, Irvine, United States [Pierce, Marlon](#), Indiana University, United States [Wang, Jun](#), Indiana University, United States

TH2.R2.2: GEODETIC DATA ASSIMILATION FOR EVALUATING VOLCANIC UNREST

[Gregg, Patricia M.](#), University of Illinois at Urbana-Champaign, United States [Albright, John A.](#), University of Illinois at Urbana-Champaign, United States [Zhan, Yan](#), University of Illinois at Urbana-Champaign, United States [Pettijohn, J. Cory](#), University of Illinois at Urbana-Champaign, United States

TH2.R2.3: DISTINGUISHING INFLATION DRIVERS AT SHALLOW MAGMATIC SYSTEMS USING ENSEMBLE-BASED DATA ASSIMILATION

[Albright, John](#), University of Illinois at Urbana-Champaign, United States [Gregg, Patricia](#), University of Illinois at Urbana-Champaign, United States

TH2.R2.5: ESTIMATION OF FUEL MOISTURE CONTENT BY INTEGRATING SURFACE AND SATELLITE OBSERVATIONS USING MACHINE LEARNING

[Kosovic, Branko](#), National Center for Atmospheric Research, United States [Jimenez, Pedro](#), National Center for Atmospheric Research, United States [McCandless, Tyler](#), National Center for Atmospheric Research, United States [Petzke, Bill](#), National Center for Atmospheric Research, United States [Massie, Steven](#), University of Colorado, United States [Siems-Anderson, Amanda](#), National Center for Atmospheric Research, United States [DeCastro, Amy](#), National Center for Atmospheric Research, United States [Munoz-Esparza, Domingo](#), National Center for Atmospheric Research, United States [Haupt, Sue Ellen](#), National Center for Atmospheric Research, United States

TH2.R2.6: SUPPORTING AQUACULTURE IN THE CHESAPEAKE BAY USING ARTIFICIAL INTELLIGENCE TO DETECT POOR WATER QUALITY WITH REMOTE SENSING

[Schollaert Uz, Stephanie](#), NASA Goddard Space Flight Center, United States [Ames, Troy](#), NASA Goddard Space Flight Center, United States [Memarsadeghi, Nargess](#), NASA Goddard Space Flight Center, United States [McDonnell, Shannon](#), University of Maryland, United States [Blough, Neil](#), University of Maryland, United States [Mehta, Amita](#), NASA GFSC/UMBC, United States [McKay, John](#), Maryland Department of the Environment, United States

[TH2.R2.7: NASA NEMO-NET - A NEURAL MULTIMODAL OBSERVATION & TRAINING NETWORK FOR MARINE ECOSYSTEM MAPPING AT DIVERSE SPATIOTEMPORAL SCALES](#)

[Chirayath, Ved](#), NASA Ames Research Center, United States [Li, Alan](#), NASA Ames Research Center, United States [Torres-Perez, Juan](#), NASA Ames Research Center, United States [Segal-Rozenhaimer, Michal](#), NASA Ames Research Center, United States [van den Bergh, Jarrett](#), NASA Ames Research Center, United States

[TH2.R2.8: COMMUNITY REORGANIZATION RESPONSE TO CLIMATE CHANGE: SPECIES INTERACTIONS, STATE-SPACE MODELING AND FOOD WEBS](#)

[Swenson, Jennifer J.](#), Duke University, United States [Qiu, Tong](#), Duke University, United States [Schwantes, Amanda M.](#), Duke University, United States [Kilner, Christopher](#), Duke University, United States [Nunez, Chase](#), Universität Leipzig, Germany [Scher, Lane](#), Duke University, United States [Sharma, Shubham](#), Duke University, United States [Clark, James S.](#), Duke University, United States

TH2.R3 - Feature Reduction by Neural and/or Spatial Characterization II

Thursday, October 1, 07:30 - 09:30 • Room 3

[TH2.R3.1: DEEP MANIFOLD LEARNING NETWORK FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Li, Zhengying](#), Chongqing University, China [Huang, Hong](#), Chongqing University, China [Pu, Chunyu](#), Chongqing University, China

[TH2.R3.2: BAND ELIMINATION FOR DIMENSIONALITY REDUCTION OF HYPERSPECTRAL IMAGES USING MUTUAL INFORMATION](#)

[Dey, Abhishek](#), Bethune College, University of Calcutta, India [Ghosh, Susmita](#), Jadavpur University, India [Ghosh, Ashish](#), Indian Statistical Institute, India

[TH2.R3.3: DIMENSIONALITY REDUCTION USING 3D RESIDUAL AUTOENCODER FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Pande, Shivam](#), Indian Institute of Technology Bombay, India [Banerjee, Biplob](#), Indian Institute of Technology Bombay, India

[TH2.R3.4: HYPERSPECTRAL TARGET DETECTION BASED ON TARGET-CONSTRAINED INTERFERENCE-MINIMIZED BAND SELECTION](#)

[Shang, Xiaodi](#), Dalian Maritime University, China [Song, Meiping](#), Dalian Maritime University, China [Wang, Yulei](#), Dalian Maritime University, China [Yu, Haoyang](#), Dalian Maritime University, China [Chang, Chien-I](#), University of Maryland Baltimore County, China

[TH2.R3.5: SPATIAL-SPECTRAL COMBINATION CONVOLUTIONAL NEURAL NETWORK FOR HYPERSPECTRAL IMAGE CLASSIFICATION](#)

[Pu, Chunyu](#), College of Opto-Electronics Engineering of Chongqing University, China [Huang, Hong](#), College of Opto-Electronics Engineering of Chongqing University, China [Li, Zhengying](#), College of Opto-Electronics Engineering of Chongqing University, China

[TH2.R3.6: NEURAL NETWORK PRUNING FOR HYPERSPECTRAL IMAGE BAND SELECTION](#)

[Wang, QiXiong](#), Beihang University, China [Luo, Xiaoyan](#), Beihang University, China [Li, Sen](#), Beihang University, China [Yin, Jihao](#), Beihang University, China

[TH2.R3.7: CREATING RGB IMAGES FROM HYPERSPECTRAL IMAGES USING A COLOR MATCHING FUNCTION](#)

[Magnusson, Magnus](#), University of Iceland, Iceland [Sigurdsson, Jakob](#), University of Iceland, Iceland [Armansson, Sveinn Eiríkur](#), University of Iceland, Iceland [Ulfarsson, Magnus Orn](#), University of Iceland, Iceland [Deborah, Hilda](#), Norwegian University of Science and

Technology, Norway [Sveinsson, Johannes R](#), University of Iceland, Iceland

[TH2.R3.8: UNSUPERVISED HYPERSPECTRAL EMBEDDING BY LEARNING A DEEP REGRESSION NETWORK](#)

[Hong, Danfeng](#), German Aerospace Center (DLR), Germany [Yao, Jing](#), German Aerospace Center (DLR), Germany [Chanussot, Jocelyn](#), Univ. Grenoble Alpes, INRIA, CNRS, Grenoble INP, LJK, France [Zhu, Xiaoxiang](#), German Aerospace Center (DLR), Germany

[TH2.R3.9: META NETWORK FOR RADAR HRRP NONCOOPERATIVE TARGET RECOGNITION WITH MISSING ASPECTS](#)

[Tian, Long](#), Xidian University, China [Chen, Bo](#), Xidian University, China [Peng, Yang](#), Xidian University, China [Du, Chuan](#), Sun Yat-sen University, China [Wu, Zhenhua](#), Anhui University, China [Liu, Hongwei](#), Xidian University, China

[TH2.R3.10: REMOTE SENSING IMAGES FEATURE LEARNING BASED ON MULTI-BRANCH NETWORKS](#)

[Liu, Chao](#), Xidian University, China [Tang, Xu](#), Xidian University, China [Ma, Jingjing](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Liu, Fang](#), Nanjing University of Science and Technology, China [Ma, Junyong](#), Science and Technology on Electro-optic Control Laboratory, China [Jiao, Licheng](#), Xidian University, China

[TH2.R3.11: STMETRICS: A PYTHON PACKAGE FOR SATELLITE IMAGE TIME-SERIES FEATURE EXTRACTION](#)

[Soares, Anderson](#), National Institute for Space Research (INPE), Brazil [Bendini, Hugo](#), National Institute for Space Research (INPE), Brazil [Vaz, Daiane](#), National Institute for Space Research (INPE), Brazil [Uehara, Tatiana](#), National Institute for Space Research (INPE), Brazil [Neves, Alana](#), National Institute for Space Research (INPE), Brazil [Lechler, Sarah](#), University of Muenster, Germany [Körting, Thales](#), National Institute for Space Research (INPE), Brazil [Fonseca, Leila](#), National Institute for Space Research (INPE), Brazil

TH2.R4 - Next Generation of LEO/GEO Microwave and Infrared Sounders

Thursday, October 1, 07:30 - 09:30 • Room 4

[TH2.R4.1: THE NEXT GENERATION US LEO HYPERSPECTRAL INFRARED SOUNDER](#)

[Tobin, David](#), University of Wisconsin-Madison, United States [Best, Fred](#), University of Wisconsin-Madison, United States [Knuteson, Robert](#), University of Wisconsin-Madison, United States [Revercomb, Henry](#), University of Wisconsin-Madison, United States [Smith, William](#), University of Wisconsin-Madison, United States [Taylor, Joe](#), University of Wisconsin-Madison, United States

[TH2.R4.2: LESSONS LEARNED FROM AIRS FOR FUTURE GRATING IR SOUNDERS](#)

[Pagano, Thomas](#), California Institute of Technology, United States

[TH2.R4.3: THE NASA TROPICS MISSION AS A PATHFINDER FOR FUTURE OPERATIONAL EARTH OBSERVING SYSTEMS](#)

[Blackwell, William](#), MIT Lincoln Laboratory, United States

[TH2.R4.4: GEOSTAR - A 'SHOVEL READY' GEOSTATIONARY MICROWAVE SOUNDER](#)

[Lambriksen, Bjorn](#), NASA Jet Propulsion Laboratory, United States

TH2.R4.5: NEXT GENERATION MICROWAVE SPECTROMETERS FOR ATMOSPHERIC SOUNDING: CUBESATS AND BEYOND

[Brown, Shannon](#), NASA Jet Propulsion Laboratory, United States [Bosch, Javier](#), NASA Jet Propulsion Laboratory, United States [Cofield, Richard](#), NASA Jet Propulsion Laboratory, United States [Cooperrider, Joelle](#), NASA Jet Propulsion Laboratory, United States [Hodges, Richard](#), NASA Jet Propulsion Laboratory, United States [Kangaslahti, Pekka](#), NASA Jet Propulsion Laboratory, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, United States [Ramos, Isaac](#), NASA Jet Propulsion Laboratory, United States [Tanner, Alan](#), NASA Jet Propulsion Laboratory, United States [Gaier, Todd](#), NASA Jet Propulsion Laboratory, United States [Lim, Boon](#), NASA Jet Propulsion Laboratory, United States [Padmanabhan, Sharmila](#), NASA Jet Propulsion Laboratory, United States [Berg, Wes](#), Colorado State University, United States [Reising, Steve](#), Colorado State University, United States [Venkatachalam, Chandrasekaran](#), Colorado State University, United States

TH2.R4.6: EXPEDITIOUS IMPLEMENTATION OF A HYPERSPECTRAL IMAGING INFRARED SOUNDER (HIIS) IN GEOSTATIONARY ORBIT

[Taylor, Joe K.](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Revercomb, Henry](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Smith Sr, William](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Knuteson, Robert](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Tobin, David](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Best, Fred](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Gero, P. Jonathan](#), University of Wisconsin-Madison Space Science and Engineering Center, United States [Glumb, Ronald](#), L3Harris, United States

TH2.R4.7: REAL-TIME DETECTION AND FILTERING OF RADIO FREQUENCY INTERFERENCE ON-BOARD A SPACEBORNE MICROWAVE RADIOMETER: THE CUBERTT MISSION

[Johnson, Joel](#), The Ohio State University, United States [Ball, Chris](#), The Ohio State University, United States [McKelvey, Christa](#), The Ohio State University, United States [Chen, Chi-Chih](#), The Ohio State University, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, United States [Brown, Shannon](#), NASA Jet Propulsion Laboratory, United States [Jarnot, Robert](#), NASA Jet Propulsion Laboratory, United States [Bendig, Rudi](#), NASA Jet Propulsion Laboratory, United States [Horgan, Kevin](#), NASA Goddard Space Flight Center, United States [Lucey, Jared](#), NASA Goddard Space Flight Center, United States [Peng, Jinzheng](#), NASA Goddard Space Flight Center, United States [Piepmeier, Jeffrey](#), NASA Goddard Space Flight Center, United States [Monahan, Nick](#), Blue Canyon Technologies, United States [Laczkowski, Doug](#), Blue Canyon Technologies, United States

TH2.R5 - Data Fusion: SAR and Optical

Thursday, October 1, 07:30 - 09:30 • Room 5

TH2.R5.1: CLOUD REMOVAL IN UNPAIRED SENTINEL-2 IMAGERY USING CYCLE-CONSISTENT GAN AND SAR-OPTICAL DATA FUSION

[Ebel, Patrick](#), Technical University of Munich, Germany [Schmitt, Michael](#), Technical University of Munich, Germany [Zhu, Xiaoxiang](#), Technical University of Munich, Germany

TH2.R5.2: GAN-BASED SAR-TO-OPTICAL IMAGE TRANSLATION WITH REGION INFORMATION

[Doi, Kento](#), University of Tokyo, Japan [Sakurada, Ken](#), National Institute of Advanced Industrial Science and Technology, Japan [Onishi, Masaki](#), National Institute of Advanced Industrial Science and Technology, Japan [Iwasaki, Akira](#), University of Tokyo, Japan

TH2.R5.3: SATELLITE DATA FUSION OF MULTIPLE OBSERVED XCO2 USING COMPRESSIVE SENSING AND DEEP LEARNING

[Nguyen, Phuong](#), University Of Maryland Baltimore County, United States [Shivadekar, Samit](#), University Of Maryland Baltimore County, United States [Chukkapalli, Sai Sree Laya](#), University Of Maryland Baltimore County, United States [Halem, Milton](#), University Of Maryland Baltimore County, United States

TH2.R5.4: SAR AND AIS DATA FUSION FOR DENSE SHIPPING ENVIRONMENTS

[Rodger, Maximilian](#), University of Surrey, United Kingdom [Guida, Raffaella](#), University of Surrey, United Kingdom

TH2.R5.5: ON THE FUSION STRATEGIES OF SENTINEL-1 AND SENTINEL-2 DATA FOR LOCAL CLIMATE ZONE CLASSIFICATION

[Gawlikowski, Jakob](#), German Aerospace Center, Germany [Schmitt, Michael](#), Technical University of Munich, Germany [Kruspe, Anna](#), German Aerospace Center, Germany [Zhu, Xiao Xiang](#), German Aerospace Center, Germany

TH2.R5.6: MULTI-POL SAR DATA FUSION FOR COASTLINE EXTRACTION BY NEURAL NETWORKS CHAINING

[De Laurentiis, Leonardo](#), University of Rome Tor Vergata, Italy [Latini, Daniele](#), University of Rome Tor Vergata, Italy [Schiavon, Giovanni](#), University of Rome Tor Vergata, Italy [Del Frate, Fabio](#), University of Rome Tor Vergata, Italy

TH2.R5.7: AUTOMATIC AREA-BASED REGISTRATION OF OPTICAL AND SAR IMAGES THROUGH GENERATIVE ADVERSARIAL NETWORKS AND A CORRELATION-TYPE METRIC

[Maggiolo, Luca](#), University of Genoa, Italy [Solarna, David](#), University of Genoa, Italy [Moser, Gabriele](#), University of Genoa, Italy [Serpico, Sebastiano](#), University of Genoa, Italy

TH2.R5.8: AUTOMATE LITHOLOGICAL CLASSIFICATION OF THE AMOTAPE TAHUIN METAMORPHIC COMPLEX IN ECUADOR USING RANDOM FOREST AND A MULTI-SENSOR SATELLITE IMAGERY APPROACH

[Muñoz, Erith](#), FAO, Ecuador [Enriquez, Jhonatan](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Tocaguano, Daniel](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Bustos, Mariaelisa](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Betancourt, Franz](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Sangucho, Carmen](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Parra, Victor](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Lima, Aracely](#), Instituto de Investigacion Geologico y Energetico, Ecuador [Zozaya, Alfonso](#), Universidad Tecnológica Metropolitana, Chile

TH2.R5.9: OPTICAL AND POLARIMETRIC SAR DATA FUSION TERRAIN CLASSIFICATION USING PROBABILISTIC FEATURE FUSION

[West, R. Derek](#), Sandia National Laboratories, United States [Yocky, David](#), Sandia National Laboratories, United States [Redman, Brian](#), Sandia National Laboratories, United States [van der Laan, John](#), Sandia National Laboratories, United States [Anderson, Dylan](#), Sandia National Laboratories, United States

TH2.R5.10: SAR IMAGE SUPER-RESOLUTION BASE ON WEIGHTED DENSE CONNECTED CONVOLUTIONAL NETWORK

[Yu, Jianwen](#), UESTC, China [Li, Wenchao](#), UESTC, China [Li, Zhongyu](#), UESTC, China [Wu, Junjie](#), UESTC, China [Yang, Haiguang](#), UESTC, China [Yang, Jianyu](#), UESTC, China

TH2.R5.11: PYSRRESNET: SUPER RESOLUTION FOR VIDEO SATELLITE IMAGERY VIA PYRAMID RESIDUAL NETWORK

[Xiao, Man](#), Sun Yat-sen University, China [He, Zhi](#), Sun Yat-sen University, China [Wu, Jiemin](#), Sun Yat-sen University, China

TH2.R6 - Land Cover Dynamics II Thursday, October 1, 07:30 - 09:30 • Room 6

TH2.R6.1: URBAN RESIDENTIAL AREA SPRAWL SIMULATION OF METROPOLITAN "SUBURBANIZATION" TREND IN BEIJING

[Liu, Fang](#), Beijing University of Civil Engineering and Architecture, United States [Sun, Weilun](#), Beijing University of Civil Engineering and Architecture, China

TH2.R6.2: VEGETATION INDICES DERIVED FROM FENGYUN-3D MERSI-II DATA

[Han, Xiuzhen](#), National Meteorological Satellite Center, China [Weng, Fuzhong](#), Chinese Academy of Meteorological Sciences, United States [Han, Yang](#), National Meteorological Satellite Center, China [Huang, He](#), Nanjing University, China [Li, Shengqi](#), Nanjing University of Information Science and Technology, China

TH2.R6.3: A 21-YEAR (1990-2011) RECORD OF LAND COVER CHANGES AND URBAN DYNAMICS OF SHANGHAI CITY DERIVED FROM LANDSAT IMAGES

[Liao, Yuanqin](#), Shanghai Institute of Geological Survey, China [Pan, Haiyan](#), Tongji university, China [Xie, Huan](#), Tongji university, China [Tong, Xiaohua](#), Tongji university, China [Xu, Xiong](#), Tongji university, China

TH2.R6.4: DETECTING IRRIGATION EFFECT ON SURFACE TEMPERATURE USING MODIS AND LAND SURFACE MODEL IN WHOLE UZBEKISTAN

[Touge, Yoshiya](#), Tohoku University, Japan [Muthoni Mbugua, Jacqueline](#), Tohoku University, Japan [Kazama, So](#), Tohoku University, Japan [Khujanazarov, Temur](#), Kyoto Universeity, Japan [Tanaka, Kenji](#), Kyoto Universeity, Japan

TH2.R6.5: AN AUTOMATIC METHOD FOR MAPPING PEN AQUACULTURE IN A SHALLOW LAKE

[Luo, Juhua](#), Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences,

China [Sun, Zhe](#), University of Chinese Academy of Sciences, China [Yang, Jingzhicheng](#), University of Chinese Academy of Sciences, China [Mao, Zhigang](#), Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences, China [Lu, Lirong](#), University of Chinese Academy of Sciences, China

[TH2.R6.6: EVALUATING THE NDLI'S PERFORMANCE FOR IDENTIFYING WATER SURFACE USING SENTINEL-2 MSI DATA](#)

[Nguyen, Kim-Anh](#), National Central University, Taiwan [Liou, Yuei-An](#), National Central University, Taiwan [Ho, Le-Thu](#), Institute of Geography, Vietnam Academy of Science and Technology, Taiwan

[TH2.R6.7: ESTIMATION OF REINFORCED SLOPE DYNAMICS USING ALOS-2/ PALSAR-2 AND VALIDATION BY TERRESTRIAL LASER SCANNER](#)

[Asaka, Tomohito](#), Nihon University, Japan [Nonaka, Takashi](#), Nihon University, Japan [Iwashita, Keishi](#), Nihon University, Japan [Uchida, Yuki](#), Nihon University, Japan [Sugimura, Toshiro](#), Nihon University, Japan

[TH2.R6.8: MULTI-SCALE DEEP RESIDUAL LEARNING FOR CLOUD REMOVAL](#)

[Yang, Qiaoqiao](#), China University of Petroleum (East China), China [Wang, Guangxing](#), China University of Petroleum (East China), China [Zhao, Yaxuan](#), China University of Petroleum (East China), China [Zhang, Xiaoyu](#), China University of Petroleum (East China), China [Dong, Guoshuai](#), China University of Petroleum (East China), China [Ren, Peng](#), China University of Petroleum (East China), China

[TH2.R6.9: ASSESSMENT OF LAND CONSUMPTION FOR SDG INDICATOR 11.3.1 USING GLOBAL AND LOCAL BUILT-UP AREA MAPS](#)

[Shelestov, Andrii](#), Space Research Institute SSAU-NASU, Ukraine [Kussul, Nataliia](#), Space Research Institute SSAU-NASU, Ukraine [Yailymov, Bohdan](#), Space Research Institute SSAU-NASU, Ukraine [Shumilo, Leonid](#), Space Research Institute SSAU-NASU, Ukraine [Bilokonska, Yulia](#), Space Research Institute SSAU-NASU, Ukraine

TH2.R7 - Integrating Physical Models into Machine Learning (ML) Models

Thursday, October 1, 07:30 - 09:30 • Room 7

TH2.R7.1: THE ROLE OF PHYSICAL MODELS IN THE ARTIFICIAL INTELLIGENCE ERA

[Bruzzone, Lorenzo](#), University of Trento, Italy

[TH2.R7.2: COMBINING PARAMETRIC LAND SURFACE MODELS WITH MACHINE LEARNING](#)

[Pelissier, Craig](#), NASA, United States [Frame, Jonathan](#), University of Alabama, United States [Nearing, Grey](#), University of Alabama, United States

[TH2.R7.3: DNN-BASED SEMANTIC EXTRACTION: FAST LEARNING FROM MULTISPECTRAL SIGNATURES](#)

[Calota, Iulia](#), University Politehnica of Bucharest, Romania [Faur, Daniela](#), University Politehnica of Bucharest, Romania [Datcu, Mihai](#), University Politehnica of Bucharest; German Aerospace Center, Romania

[TH2.R7.4: A DEEP MACHINE LEARNING APPROACH FOR LIDAR BASED BOUNDARY LAYER HEIGHT DETECTION](#)

[Sleeman, Jennifer](#), University of Maryland Baltimore County, United States [Yang, Zhifeng](#), University of Maryland Baltimore County, United States [Caicedo, Vanessa](#), University of Maryland Baltimore County, United States [Halem, Milton](#), University of Maryland Baltimore County, United States [Demos, Belay](#), University of Maryland Baltimore County, United States [Delgado, Ruben](#), University of Maryland Baltimore County, United States

[TH2.R7.5: ANALYSIS OF HYPERSPECTRAL DATA BY MEANS OF TRANSPORT MODELS AND MACHINE LEARNING](#)

[Czaja, Wojciech](#), University of Maryland College Park, United States [Dong, Dong](#), University of Maryland College Park, United States [Jabin, Pierre-Emmanuel](#), University of Maryland College Park, United States [Ndjakou Njeunje, Franck Olivier](#), University of Maryland College Park, United States

[TH2.R7.6: ROTATIONAL EQUIVARIANCE FOR OBJECT CLASSIFICATION USING XVIEW](#)

[Bynum, Lucius](#), Pacific Northwest National Laboratory, United States [Doster, Timothy](#), Pacific Northwest National Laboratory, United States [Emerson, Tegan](#), Pacific Northwest National Laboratory, United States [Kvinge, Henry](#), Pacific Northwest National Laboratory, United States

TH2.R7.7: PHYSICALLY MEANINGFUL DICTIONARIES FOR EO CROWDSOURCING: A ML FOR BLOCKCHAIN ARCHITECTURE

[Coca, Mihai](#), University Politehnica of Bucharest, Romania [Neagoe, Iulia](#), University Politehnica of Bucharest, Romania [Datcu, Mihai](#), German Aerospace Center (DLR), Romania

TH2.R7.8: QUANTUM ANNEALING APPROACH: FEATURE EXTRACTION AND SEGMENTATION OF SYNTHETIC APERTURE RADAR IMAGE

[Otgonbaatar, Soronzonbold](#), German Aerospace Center, Germany [Datcu, Mihai](#), German Aerospace Center, Germany

TH2.R7.9: QUANTUM ASSISTED IMAGE REGISTRATION

[Pelissier, Craig](#), NASA, United States [Ames, Troy](#), NASA, United States [Le Moigne, Jacqueline](#), NASA, United States

TH2.R7.10: QUANTUM IMAGING FOR SPACE OBJECTS

[Pepe, Francesco V.](#), Università degli Studi di Bari, Italy [Scagliola, Alessio](#), Università degli studi di Bari, Italy [Garuccio, Augusto](#), Università degli Studi di Bari, Italy [D'Angelo, Milena](#), Università degli studi di Bari, Italy

TH2.R8 - Ocean Altimetry

Thursday, October 1, 07:30 - 09:30 • Room 8

TH2.R8.1: VALIDATION OF JASON-3 ALTIMETER USING TIDE GAUGES AROUND NORTH AMERICA

[Zhai, Wanlin](#), National Ocean Technology Center, China [Zhu, Jianhua](#), National Ocean Technology Center, China

TH2.R8.2: IN-ORBIT CALIBRATION AND VALIDATION OF HY-2B ALTIMETER USING AN IMPROVED TRANSPONDER

[Wang, Caiyun](#), National Space Science Center, Chinese Academy of Sciences, China [Guo, Wei](#), National Space Science Center, Chinese Academy of Sciences, China [Liu, Peng](#), National Space Science Center, Chinese Academy of Sciences, China [Wang, Te](#), National Space Science Center, Chinese Academy of Sciences, China [Cui, Hongbin](#), University of Chinese Academy of Sciences, China

TH2.R8.3: SIMULATION STUDY ON BASELINE ERROR ESTIMATION OF WIDE-SWATH ALTIMETER BY INTERFEROMETRIC PHASE AFTER FLAT-EARTH PHASE REMOVAL

[Miao, Xiangying](#), Ocean University of China, China [Miao, Hongli](#), Ocean University of China, China

TH2.R8.4: PRELIMINARY PRECISION ASSESSMENT OF HY-2B ALTIMETER DATA OVER ANTARCTICA AND GREENLAND

[Jiang, Maofei](#), National Space Science Center, Chinese Academy of Sciences, China [Xu, Ke](#), National Space Science Center, Chinese Academy of Sciences, China [Jia, Yongjun](#), National Satellite Ocean Application Service, China

TH2.R8.5: AN ESTIMATE OF THE DECAY RATE OF SWELLS USING ALTIMETER DATA

[Gao, Zhiyi](#), National Marine Environmental Forecasting Center, China [Yu, Fujian](#), National Marine Environmental Forecasting Center, China [Wei, Yongliang](#), College of Marine Sciences, Shanghai Ocean University, China [Lu, Hengxing](#), College of Marine Sciences, Shanghai Ocean University, China [Zhang, Liangsong](#), Fujian Marine Forecasting Center, China [Lu, Mei](#), Fujian Marine Forecasting Center, China [Xu, Ying](#), National Satellite Ocean Application Service, China

TH2.R8.6: SIMULATION OF THE WIDE SWATH SEA SURFACE HEIGHT CALIBRATION USING GNSS BUOY ARRAY

[Xu, Xi-Yu](#), Key Laboratory of Microwave Remote Sensing, National Space Science Center, Chinese Academy of Sciences, Beijing, 100190, China, China

TH2.R8.7: WAVE-CURRENT INTERACTION IN THE NORTHWEST PACIFIC OCEAN

USING SATELLITE ALTIMETER DATA

[Woo, Hye-Jin](#), Seoul National University, Korea (South) [Park, Kyung-Ae](#), Seoul National University, Korea (South)

TH2.R8.8: ANALYSIS OF SENTINEL-3A SYNTHETIC APERTURE RADAR (SAR) ALTIMETRY WAVEFORMS OVER THE SOUTHEAST ASIA REGION

[Idris, Nurul Hazrina](#), Universiti Teknologi Malaysia, Malaysia [Vignudelli, Stefano](#), Consiglio Nazionale delle Ricerche (CNR), Area delle Ricerche CNR S.Cataldo, Italy [Deng, Xiaoli](#), University of Newcastle, Australia

TH2.R8.9: IMPROVED ORBIT DETERMINATION OF THE CYGNSS SATELLITES AND ITS APPLICATION TO GNSS-R OCEAN ALTIMETRY

[Conrad, Alex](#), University of Colorado Boulder, United States [Axelrad, Penina](#), University of Colorado Boulder, United States [Zuffada, Cinzia](#), NASA Jet Propulsion Laboratory, United States [Haines, Bruce](#), NASA Jet Propulsion Laboratory, United States [O'Brien, Andrew](#), The Ohio State University, United States [Loria, Eric](#), The Ohio State University, United States

TH2.R8.10: IMPROVING THE ESTIMATION OF THE SEA LEVEL ANOMALY SLOPE

[Mailhes, Corinne](#), University of Toulouse, France [Besson, Olivier](#), University of Toulouse, France [Guillot, Amandine](#), Centre National d'Etudes Spatiales (CNES), France [Le Gac, Sophie](#), Centre National d'Etudes Spatiales (CNES), France

TH2.R8.11: PHOTON-COUNTING LIDAR: LINEAR DENSITY MULTI-LEVEL CLASSIFICATION METHOD FOR OFFSHORE AREAS

[Xu, Qi](#), Tongji University, China [Xie, Huan](#), Tongji University, China [Ye, Dan](#), Tongji University, China [Tong, Xiaohua](#), Tongji University, China

TH2.R9 - Airborne/Ground-base and Thursday, October 1, 07:30 - 09:30 • Room 9
Processing Imaging Techniques

TH2.R9.1: A FOCUS STACKING ALGORITHM FOR AIRBORNE SAR IMAGES

[Oishi, Noboru](#), Mitsubishi Electric Corporation, Japan [Suwa, Kei](#), Mitsubishi Electric Corporation, Japan

TH2.R9.2: AN IMPROVED IMAGING ALGORITHM FOR AIRBORNE NEAR-NADIR TOPS SAR WITH YAW ANGLE ERROR

[Li, Han](#), Xidian University, China [Suo, Zhiyong](#), Xidian University, China [Zheng, Chengxin](#), Xidian University, China [Zhang, Jingqiang](#), Shanghai Radio Equipment Research Institute, China [Li, Zhenfang](#), Xidian University, China

TH2.R9.3: FMCW SAR DATA INVERSION

[Casalini, Emiliano](#), University of Zurich, Switzerland [Henke, Daniel](#), University of Zurich, Switzerland

TH2.R9.4: THE PHASE ERROR ANALYSIS AND COMPENSATION OF MRUAV-SAR

[Zhang, Yun](#), Harbin Institute of Technology, China [Zhu, Xin](#), Harbin Institute of Technology, China [Zhao, Bin](#), Harbin Institute of Technology, China [Lu, Chenyue](#), Harbin Institute of Technology, China

TH2.R9.5: UNAMBIGUOUS SIGNAL RECONSTRUCTION ALGORITHM FOR HIGH SQUINT MULTICHANNEL SAR MOUNTED ON HIGH SPEED MANEUVERING PLATFORMS

[Li, Ning](#), Xidian University, China [Sun, Guang-Cai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China

TH2.R9.6: A VARIABLE-DECOUPLING METHOD USED IN MSR-BASED IMAGING ALGORITHMS FOR SAR WITH CONSTANT ACCELERATION

[Zhang, Yun](#), Harbin Institute of Technology, China [Zhang, Haojian](#), Harbin Institute of Technology (Shenzhen), China [Zhang, Tingting](#), Harbin Institute of Technology (Shenzhen), China [Li, Hongbo](#), Harbin Institute of Technology, China [Mu, Huilin](#), Harbin Institute of Technology, China

TH2.R9.7: EXPLAINING ANOMALIES IN SAR AND SCATTEROMETER SOIL MOISTURE RETRIEVALS FROM DRY SOILS WITH SUB-SURFACE SCATTERING

[Morrison, Keith](#), University of Reading, United Kingdom [Wagner, Wolfgang](#), Technical

University of Vienna, Austria

TH2.R9.8: SARSENSE: A C- AND L-BAND SAR REHEARSAL CAMPAIGN IN GERMANY IN PREPARATION FOR ROSE-L

[Montzka, Carsten](#), Forschungszentrum Jülich, Germany [Brogi, Cosimo](#), Forschungszentrum Jülich, Germany [Mengen, David](#), Forschungszentrum Jülich, Germany [Matveeva, Maria](#), Forschungszentrum Jülich, Germany [Baum, Stephani](#), Forschungszentrum Jülich, Germany [Schüttemeyer, Dirk](#), European Space Agency, Netherlands [Bayat, Bagher](#), Forschungszentrum Jülich, Germany [Bogena, Heye](#), Forschungszentrum Jülich, Germany [Coccia, Alex](#), Metasensing BV, Netherlands [Masalias, Gerard](#), Metasensing BV, Netherlands [Graf, Verena](#), Forschungszentrum Jülich, Germany [Jakobi, Jannis](#), Forschungszentrum Jülich, Germany [Jonard, Francois](#), Forschungszentrum Jülich, Germany [Ma, Yueling](#), Forschungszentrum Jülich, Germany [Mattia, Francesco](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Palmisano, Davide](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Rascher, Uwe](#), Forschungszentrum Jülich, Germany [Satalino, Guiseppe](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Jagdhuber, Thomas](#), German Aerospace Center, Germany [Fluhrer, Anke](#), German Aerospace Center, Germany [Schumacher, Maike](#), University of Hohenheim, Germany [Schmidt, Marius](#), Forschungszentrum Jülich, Germany [Vereecken, Harry](#), Forschungszentrum Jülich, Germany

TH2.R9.9: GROUND MOVING TARGET IMAGING BASED ON MSOKT AND KT FOR SYNTHETIC APERTURE RADAR

[Wan, Jun](#), Chongqing University, China [Chen, Zhanyue](#), Chongqing University, China [Zhou, Yu](#), Xidian University, China [Li, Dong](#), Chongqing University, China [Huang, Yan](#), Southeast University, China [Zhang, Linrang](#), Xidian University, China

TH2.R9.10: HIERARCHICAL ATTENTION FOR SHIP DETECTION IN SAR IMAGES

[Zhu, Chunbo](#), Beihang University, China [Zhao, Danpei](#), Beihang University, China [Liu, Ziming](#), Beihang University, China [Mao, Yinan](#), Beihang University, China

TH2.R9.11: AN ANTENNA BEAM STEERING STRATEGY FOR SAR ECHO SIMULATION IN HIGHLY ELLIPTICAL ORBIT

[Hu, Xinchang](#), Beihang University, China [Wang, Pengbo](#), Beihang University, China [Chen, Jie](#), Beihang University, China [Yang, Wei](#), Beihang University, China [Guo, Yanan](#), Beihang University, China

TH2.R9.12: EFFICIENT TIME DOMAIN ECHO SIMULATION OF BISTATIC SAR CONSIDERING TOPOGRAPHY VARIATION

[Chen, Tianfu](#), University of Electronic Science and Technology of China, China [Zhang, Jiyu](#), University of Electronic Science and Technology of China, China [Li, Wenchao](#), University of Electronic Science and Technology of China, China [Wu, Junjie](#), University of Electronic Science and Technology of China, China [Li, Zhongyu](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

**TH2.R10 - Remote Sensing
Methods for Forest and Vegetation
Properties**

Thursday, October 1, 07:30 - 09:30 • Room 10

TH2.R10.1: DEEP NEURAL NETWORKS FOR FOREST GROWING STOCK VOLUME RETRIEVAL: A COMPARATIVE ANALYSIS FOR L-BAND SAR DATA

[Tanase, Mihai](#), National Institute for Research and Development in Forestry "Marin Dracea", Romania [Marin, Gheorghe](#), National Institute for Research and Development in Forestry "Marin Dracea", Romania [Belenguer-Plomer, Miguel](#), Universidad de Alcala de Henares, Spain [Borlaf, Ignacio](#), Universidad de Alcala de Henares, Spain [Popescu, Flaviu](#), Romanian Forest Owners' Association, Romania [Badea, Ovidiu](#), National Institute for Research and Development in Forestry "Marin Dracea", Romania

TH2.R10.2: TROPICAL FOREST HEIGHT AND UNDERLYING TOPOGRAPHY FROM TANDEM-X SAR INTERFEROMETRY

[Lei, Yang](#), California Institute of Technology, United States [Treuhart, Robert](#), NASA Jet Propulsion Laboratory, United States [Goncalves, Fabio](#), Canopy Remote Sensing Solutions, Brazil

TH2.R10.3: HIGH-RESOLUTION WOODY VEGETATION COVER, HEIGHT AND BIOMASS MAPPING ACROSS AUSTRALIA

[Van Dijk, Albert](#), Australian National University, Australia [Liao, Zhanmang](#), University of Electronic Science and Technology of China, China

TH2.R10.4: ESTIMATION OF FOREST ABOVE-GROUND BIOMASS WITH C-BAND SCATTEROMETER BACKSCATTER OBSERVATIONS

[Santoro, Maurizio](#), Gamma Remote Sensing, Switzerland [Cartus, Oliver](#), Gamma Remote Sensing, Switzerland [Wegmüller, Urs](#), Gamma Remote Sensing, Switzerland

TH2.R10.5: A REGIONAL L-BAND HIGH BIOMASS ESTIMATION FRAMEWORK LEVERAGING SPACEBORNE LIDAR AND INTERFEROMETRIC DATA TO OVERCOME BACKSCATTER SATURATION

[Marshak, Charlie](#), NASA Jet Propulsion Laboratory, United States [Simard, Marc](#), NASA Jet Propulsion Laboratory, United States [Duncanson, Laura](#), University of Maryland, United States [Silva, Carlos](#), University of Maryland, United States [Denbina, Michael](#), NASA Jet Propulsion Laboratory, United States [Liao, Tien-Hao](#), California Institute of Technology, United States

TH2.R10.6: WEAK RESPONSE OF VEGETATION PHOTOSYNTHESIS TO METEOROLOGICAL DROUGHTS IN SOUTHWEST CHINA: INSIGHTS FROM GOME-2 SOLAR-INDUCED FLUORESCENCE

[Qi, Yangqian](#), University of British Columbia, Canada [Zeng, Zhao-Cheng](#), California Institute of Technology, United States

TH2.R10.7: ALLOMETRIC RELATIONSHIPS BETWEEN ABOVE-GROUND BIOMASS AND LIDAR FULL WAVEFORM MEASUREMENTS - POTENTIAL APPLICATIONS FOR GLOBAL ECOSYSTEM DYNAMICS INVESTIGATION (GEDI) MISSION

[Ni-Meister, Wenge](#), Hunter College of The City University of New York, United States [Lee, Shihyal](#), Science Application International Corp. and NASA Goddard Space Flight Center, United States

TH2.R10.8: VEGETATION OPTICAL DEPTH RETRIEVAL FROM AMSR-E/AMSR2 OBSERVATIONS USING L-MEB INVERSION

[Wang, Mengjia](#), Beijing Normal University, China [Wigneron, Jean-Pierre](#), National Institute of Agricultural Research (INRAE), France [Sun, Rui](#), Beijing Normal University, China [Ciais, Philippe](#), Laboratoire des Sciences du Climat et de l'Environnement, France [Brandt, Martin](#), University of Copenhagen, Denmark [Liu, Yi](#), Nanjing University of Information Science and Technology, China [Frappart, Frédéric](#), Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), France [Li, Xiaojun](#), National Institute of Agricultural Research (INRA), China [Liu, Xiangzhuo](#), National Institute of Agricultural Research (INRA), China [Fan, Lei](#), Nanjing University of Information Science and Technology, China [Fensholt, Rasmus](#), University of Copenhagen, Denmark

TH2.R10.9: VICARIOUS VALIDATION OF L-BAND VEGETATION OPTICAL DEPTH

[Lewis-Beck, Colin](#), University of Iowa, United States [Cirone, Richard](#), Iowa State University, United States [Walker, Victoria](#), University of Montana, United States [Feldman, Andrew](#), Massachusetts Institute of Technology, United States [Chaubell, Julian](#), NASA Jet Propulsion Laboratory, United States [Colliander, Andreas](#), NASA Jet Propulsion Laboratory, United States [Wigneron, Jean-Pierre](#), Institut National de la Recherche Agronomique, United States [Hornbuckle, Brian](#), Iowa State University, United States

TH2.R10.10: NEW ASCAT VEGETATION OPTICAL DEPTH (IB-VOD) RETRIEVALS OVER AFRICA

[Liu, Xiangzhuo](#), INRAE, France [Wigneron, J.-P.](#), INRAE, France [Frappart, Frédéric](#), Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS), France [Baghdadi, Nicolas](#), IRSTEA, France [Zribi, Mehrez](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Jagdhuber, Thomas](#), German Aerospace Center (DLR), Germany [Li, Xiaojun](#), INRAE, France [Wang, Mengjia](#), INRAE, France [Fan, Lei](#), Nanjing University of Information Science and Technology, China [Moisy, Christophe](#), INRAE, France

TH2.R10.11: A HIGHLY CHLOROPHYLL-SENSITIVE AND LAI-INSENSITIVE INDEX BASED ON THE RED-EDGE BAND: CSI

[Zhang, Hu](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Li, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Liu, Qinhua](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Zhao, Jing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China
[Dong, Yadong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

TH2.R11 - Envisioning the Role of Remote Sensing in Agriculture in 2030 Thursday, October 1, 07:30 - 09:30 • Room 11

[TH2.R11.1: END-USER DRIVEN REMOTE SENSING FOR AGRICULTURAL APPLICATIONS](#)

[Roth, Keely](#), The Climate Corporation, United States

[TH2.R11.2: NASA HARVEST\(ING\) EARTH OBSERVATIONS FOR INFORMED AGRICULTURAL DECISIONS](#)

[Whitcraft, Alyssa](#), NASA Harvest, United States
[Becker-Reshef, Inbal](#), NASA Harvest, United States
[Justice, Christopher](#), NASA Harvest, United States

[TH2.R11.3: A MULTI-MODAL APPROACH FOR MONITORING CHANGES IN AGRICULTURE IN THE MEKONG RIVER DELTA](#)

[Neigh, Christopher](#), NASA Goddard Space Flight Center, United States
[Thomas, Nathan](#), Earth System Science Interdisciplinary Center University of Maryland College Park, NASA Goddard Space Flight Center, United States
[Carroll, Mark](#), NASA Goddard Space Flight Center, United States
[Wooten, Margaret](#), Science Systems Applications Inc., NASA Goddard Space Flight Center, United States
[McCarty, Jessica](#), Miami University, United States

[TH2.R11.4: EXPLORING THE POSSIBILITY OF ASSESSING BIOCHEMICAL VARIABLES IN SUGARCANE CROP WITH SENTINEL-2 DATA](#)

[Panwar, Ekta](#), Indian Institute of Technology Roorkee, India
[Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India
[Sharma, Ashwini Kumar](#), Indian Institute of Technology Roorkee, India

[TH2.R11.5: EARTH OBSERVATION AT FINER SCALES IS CRITICAL TO FARMING COMMUNITIES FACING INCREASED WATER SHORTAGES OVER THE NEXT DECADE](#)

[Vanthof, Victoria](#), University of Waterloo, Canada
[Kelly, Richard](#), University of Waterloo, Canada

[TH2.R11.6: VIRTUAL ENVIRONMENTS & SUSTAINABLE AGRICULTURE: A CASE STUDY](#)

[Lourenço, João](#), University of Trás-os-Montes e Alto Douro, Portugal
[Teixeira, João](#), University of Trás-os-Montes e Alto Douro, Portugal
[Carvalho, Paulo](#), University of Trás-os-Montes e Alto Douro, Portugal
[Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal
[Adão, Telmo](#), University of Trás-os-Montes e Alto Douro, Portugal
[Peres, Emanuel](#), University of Trás-os-Montes e Alto Douro, Portugal
[Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

[TH2.R11.7: CAPTURING CORN AND SOYBEAN YIELD VARIABILITY AT FIELD SCALE USING VERY HIGH SPATIAL RESOLUTION SATELLITE DATA](#)

[Skakun, Sergii](#), University of Maryland, United States
[Brown, Meredith](#), University of Maryland, United States
[Roger, Jean-Claude](#), University of Maryland, United States
[Vermote, Eric](#), NASA Goddard Space Flight Center, United States

TH2.R12 - Advanced Remote Sensing Data Analysis for Sustainable Development Thursday, October 1, 07:30 - 09:30 • Room 12

[TH2.R12.1: ACCELERATING SUSTAINABLE DEVELOPMENT WITH EARTH INTELLIGENCE](#)

[Musgrave, Madison](#), Maxar, United States
[Hallas, Matt](#), Maxar, United States
[Price, Rhiannan](#), Maxar, United States
[Pacifi, Fabio](#), Maxar, United States

[TH2.R12.2: PATHWAYS TO MULTITEMPORAL RADAR SOUNDING IN TERRESTRIAL](#)

GLACIOLOGY

[Schroeder, Dustin](#), Stanford University, United States

[TH2.R12.3: BETWEEN VULNERABILITY AND SUSTAINABILITY: EVALUATING THE FLOOD IMPACT ON URBAN ROAD NETWORK](#)

[Huang, Kuan-ting](#), National Taipei University of Technology, Taiwan [Luo, Qian](#), National Taipei University of Technology, Taiwan

[TH2.R12.4: REMOTE SENSING AND DEEP LEARNING FOR SUSTAINABLE MINING](#)

[Ghamisi, Pedram](#), Helmholtz Zentrum Dresden Rossendorf, Helmholtz Institute Freiberg for Resource Technology, Germany [Li, Hao](#), Heidelberg University, Germany [Jackisch, Robert](#), Helmholtz-Zentrum Dresden-Rossendorf, Helmholtz Institute Freiberg for Resource Technology, Germany [Rasti, Behnood](#), Helmholtz-Zentrum Dresden-Rossendorf, Helmholtz Institute Freiberg for Resource Technology, Germany [Gloaguen, Richard](#), Helmholtz Zentrum Dresden Rossendorf, Helmholtz Institute Freiberg for Resource Technology, Germany

[TH2.R12.5: A FLUORESCENCE LIDAR SIMULATOR FOR THE DESIGN OF ADVANCED WATER QUALITY ASSESSMENT METHODOLOGIES](#)

[Matteoli, Stefania](#), National Research Council of Italy, Italy [Diani, Marco](#), Italian Naval Academy, Italy [Corsini, Giovanni](#), University of Pisa, Italy

[TH2.R12.6: TOWARDS UNCOVERING SOCIO-ECONOMIC INEQUALITIES USING VHR SATELLITE IMAGES AND DEEP LEARNING](#)

[Persello, Claudio](#), University of Twente, Netherlands [Kuffer, Monika](#), University of Twente, Netherlands

[TH2.R12.7: DAMAGE CHARACTERIZATION IN URBAN ENVIRONMENTS FROM MULTITEMPORAL REMOTE SENSING DATASETS BUILT FROM PREVIOUS EVENTS](#)

[Adriano, Bruno](#), RIKEN Center for Advanced Intelligence Project, Japan [Xia, Junshi](#), RIKEN Center for Advanced Intelligence Project, Japan [Yokoya, Naoto](#), RIKEN Center for Advanced Intelligence Project, Japan [Miura, Hiroyuki](#), Hiroshima University, Japan [Matsuoka, Masashi](#), Tokyo Institute of Technology, Japan [Koshimura, Shunichi](#), Tohoku University, Japan

[TH2.R12.8: HIGH SPECTRAL AND TEMPORAL RESOLUTION IMAGING ANALYSIS FOR MONITORING ALGAL BLOOM IN WATER RESERVOIR IN THE WARM SEASON](#)

[German, Alba](#), Mario Gulich Institute, Argentina [Ferral, Anabella](#), Mario Gulich Institute, Argentina [Scavuzzo, Carlos Marcelo](#), Mario Gulich Institute, Argentina [Shimoni, Michal](#), Signal and Image Centre, Belgium

TH2.R13 - Radio Frequency
Interference (RFI) in Microwave
Remote Sensing

Thursday, October 1, 07:30 - 09:30 • Room 13

[TH2.R13.1: MAPPING OCEAN-REFLECTED RADIO FREQUENCY INTERFERENCE FOR THE GPM MICROWAVE IMAGER USING NORMALIZED RETRIEVAL COST FUNCTION](#)

[Adams, Ian](#), NASA Goddard Space Flight Center, United States [Munchak, Stephen Joseph](#), NASA Goddard Space Flight Center, United States

[TH2.R13.2: GROUND RFI DETECTION SYSTEM FOR PASSIVE MICROWAVE EARTH OBSERVATION DATA AND SPACE MISSIONS](#)

[Oliva, Roger](#), Zenithal Blue Technologies, Spain [Onrubia, Raul](#), Zenithal Blue Technologies, Spain [Martellucci, Antonio](#), European Space Agency, Netherlands [Daganzo-Eusebio, Elena](#), European Space Agency, Netherlands [Jorge, Flavio](#), European Space Agency, Netherlands [English, Stephen](#), European Centre for Medium-Range Weather Forecast, United Kingdom [de Rosnay, Patricia](#), European Centre for Medium-Range Weather Forecast, United Kingdom [Weston, Peter](#), European Centre for Medium-Range Weather Forecast, United Kingdom [Barbosa, Jose](#), Research and Development in Aerospace GmbH, Switzerland [Nestoras, Ioannis](#), Research and Development in Aerospace GmbH, Switzerland

[TH2.R13.3: RETRIEVAL OF RFI CHARACTERISTICS USING L-BAND SATELLITE DATA](#)

[Soldo, Yan](#), NASA GSFC/USRA, United States [Oliva, Roger](#), European Space Agency, United States [Le Vine, David](#), NASA Goddard Space Flight Center, United States [Bringer, Alexandra](#), The Ohio State University, United States [de Mattheaïs, Paolo](#), NASA Goddard Space Flight Center, United States

[TH2.R13.5: SIMILARITY APPROACH FOR RADIO FREQUENCY INTERFERENCE DETECTION AND CORRECTION IN MULTI-RECEIVER SAR](#)

[Natsuaki, Ryo](#), University of Tokyo, Japan [Jaeger, Marc](#), German Aerospace Center, Germany
[Prats-Iraola, Pau](#), German Aerospace Center, Germany

[TH2.R13.6: WIDEBAND INTERFERENCE SUPPRESSION FOR SAR BY TIME-FREQUENCY-PULSE JOINT DOMAIN PROCESSING](#)

[Su, Jia](#), Northwestern Polytechnical University, China [Li, Haojiang](#), Northwestern Polytechnical University, China [Tao, Mingliang](#), Northwestern Polytechnical University, China [Fan, Yifei](#), Northwestern Polytechnical University, China [Wang, Ling](#), Northwestern Polytechnical University, China [Tao, Haihong](#), Xidian University, China

[TH2.R13.7: THE SPECTRUM OUTLOOK FOR EARTH REMOTE SENSING POST WRC-19](#)

[Houts, Jacquelynne](#), NASA, United States [Kim, Edward](#), NASA, United States

[TH2.R13.8: AGENDA ITEMS OF THE WORLD RADIOCOMMUNICATION CONFERENCE 2023 RELEVANT TO REMOTE SENSING](#)

[de Matthea, Paolo](#), NASA Goddard Space Flight Center, United States [von Deak, Thomas](#), National Oceanic and Atmospheric Administration (NOAA), United States [Oliva, Roger](#), European Space Agency, Spain [Bollian, Tobias](#), German Aerospace Center (DLR), Germany

TH2.R14 - Data Management and Systems II Thursday, October 1, 07:30 - 09:30 • Room 14

[TH2.R14.1: THE EARTHSERVER GLOBAL DATACUBE FEDERATION](#)

[Baumann, Peter](#), Jacobs University | rasdaman GmbH, Germany

[TH2.R14.2: DESIGN AND DEVELOPMENT OF SPATIO-TEMPORAL FUSION AND OPERATION PLATFORM FOR ANCIENT AND MODERN MAPS](#)

[Ren, Liyan](#), Key Laboratory for Aerial Remote Sensing Technology of Ministry of Natural Resources, China [Li, Yingcheng](#), Key Laboratory for Aerial Remote Sensing Technology of Ministry of Natural Resources, China [Xiao, Jincheng](#), Key Laboratory for Aerial Remote Sensing Technology of Ministry of Natural Resources, China [Xi, Haijian](#), Key Laboratory for Aerial Remote Sensing Technology of Ministry of Natural Resources, China

[TH2.R14.3: ROAD VECTORIZATION BASED ON IMAGE PIXEL TRACKING AND ATTRIBUTE MATCHING METHOD](#)

[Yuan, Lang](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Yang, Chao](#), University of Electronic Science and Technology of China, China [Fan, Kunlong](#), University of Electronic Science and Technology of China, China [Si, Yu](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China

[TH2.R14.4: JOINT NODE SELECTION AND SPACE-TIME RESOURCE ALLOCATION STRATEGY FOR MULTIPLE TARGETS TRACKING IN NETTED RADAR SYSTEM](#)

[Su, Yang](#), University of Electronic Science and Technology of China, China [He, Zishu](#), University of Electronic Science and Technology of China, China

[TH2.R14.5: ERDDAP: PROVIDING EASY ACCESS TO REMOTE SENSING DATA FOR SCIENTISTS AND STUDENTS](#)

[Wilson, Cara](#), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, United States [Robinson, Dale](#), University of California, Santa Cruz, United States [Simons, Robert A.](#), National Oceanic and Atmospheric Administration, National Marine Fisheries Service, United States

[TH2.R14.6: THE TRANSMISSION INTERFACE DESIGN OF HALL-EFFECT SENSOR](#)

[Fan, Hua](#), University of Electronic Science and Technology of China, China [Zeng, Yongqin](#), University of Electronic Science and Technology of China, China

[TH2.R14.7: FPGA BASED DIGITAL MAGNETIC FIELD DETECTION SYSTEM](#)

[Fan, Hua](#), University of Electronic Science and Technology of China, China [Yang, Jingxuan](#), University of Electronic Science and Technology of China, China [Zhang, Jia](#), Shanghai Analogic Info Technology Co., Ltd, China [Zhang, Ke](#), Chengdu HiWafer Semiconductor Co., Ltd., China

[Xing, Dezhi](#), Chongqing United Microelectronics Center, China [Feng, Quanyuan](#), School of Information Science and Technology, Southwest Jiaotong University, China

[TH2.R14.8: OPTIMIZATION OF HIGH PRECISION SAR ADC USED IN THE REMOTE SENSING TECHNOLOGY](#)

[Fan, Hua](#), University of Electronic Science and Technology of China, China [Yang, Jingxuan](#), University of Electronic Science and Technology of China, China [Cen, Yuanjun](#), Chengdu Sino Microelectronics Technology Co., Ltd., China [Feng, Quanyuan](#), School of Information Science and Technology, Southwest Jiaotong University, China

[TH2.R14.9: GEONOTE: A FIELD NOTEBOOK AND DATABASE FOR GEOLOGY](#)

[Cordova Gallardo, Omar Alejandro](#), Universidad de Guadalajara, Mexico [De-la-Torre, Miguel](#), Universidad de Guadalajara, Mexico [Ayala Carazas, Luis](#), Explorock SAC Soluciones Geológicas, Peru [Rosas Elguera, José Guadalupe](#), Universidad de Guadalajara, Mexico [Acevedo Juárez, Brenda](#), Universidad de Guadalajara, Mexico

[TH2.R14.10: A CROWDSOURCING-BASED PLATFORM FOR LABELLING REMOTE SENSING IMAGES](#)

[Zhao, Jianghua](#), Chinese Academy of Sciences, China [Wang, Xuezhi](#), Computer Network Information Center, China [Zhou, Yuanchun](#), Computer Network Information Center, China

[TH2.R14.11: CLASSIFICATION OF ERRORS IN GEOGRAPHIC DATA USING ISO 19157](#)

[Porfirio, Barbara](#), Universidade Federal do ABC, Brazil [Adaniya, Nicolle](#), Universidade Federal do ABC, Brazil [Josko, João](#), Universidade Federal do ABC, Brazil [Oikawa, Marcio](#), Universidade Federal do ABC, Brazil

[TH2.R14.12: A METHOD TO IDENTIFY HIGH-QUALITY PURE SNOW DATA IN POLDER DATABASE](#)

[Guo, Jing](#), Beijing Normal University, China [Jiao, Ziti](#), Beijing Normal University, China [Cui, Lei](#), Beijing Normal University, China [Yin, Siyang](#), Beijing Normal University, China [Chang, Yaxuan](#), Beijing Normal University, China [Xie, Rui](#), Beijing Normal University, China [Li, Sijie](#), Beijing Normal University, China [Zhu, Zidong](#), Beijing Normal University, China

TH2.R15 - ALOS-2/-4

Thursday, October 1, 07:30 - 09:30 • Room 15

[TH2.R15.1: TRIAL OF DEFORESTATION DETECTION BY USING 25M RESOLUTION PALSAR-2/SCANSAR DATA](#)

[Watanabe, Manabu](#), Tokyo Denki University, Japan [Koyama, Christian](#), Tokyo Denki University, Japan [Hayashi, Masato](#), Japan Aerospace Exploration Agency, Japan [Nagatani, Izumi](#), Japan Aerospace Exploration Agency, Japan [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan [Shimada, Masanobu](#), Tokyo Denki University, Japan

[TH2.R15.2: CHANGE DETECTION IN BI-TEMPORAL ALOS-2 PALSAR-2 POLARIMETRIC DATA](#)

[Lee, Ken Yoong](#), National University of Singapore, Singapore [Hou, Chen Guang](#), National University of Singapore, Singapore [Liew, Soo Chin](#), National University of Singapore, Singapore [Kwoh, Leong Keong](#), National University of Singapore, Singapore

[TH2.R15.3: ALOS-4 L-BAND SAR OBSERVATION CONCEPT AND DEVELOPMENT STATUS](#)

[Motohka, Takeshi](#), Japan Aerospace Exploration Agency, Japan [Kankaku, Yukihiro](#), Japan Aerospace Exploration Agency, Japan [Miura, Satoko](#), Japan Aerospace Exploration Agency, Japan [Suzuki, Shinichi](#), Japan Aerospace Exploration Agency, Japan

[TH2.R15.4: MONITORING OF FISHING BOATS BY ALOS-2/4 DATA](#)

[Arii, Motofumi](#), Mitsubishi Electric Corporation, Japan [Nishimura, Takeshi](#), Mitsubishi Space Software Co., Ltd., Japan [Serizawa, Jin](#), Mitsubishi Space Software Co., Ltd., Japan

[TH2.R15.5: RAINFALL-INDUCED CHANGES IN L-BAND BACKSCATTER OVER TROPICAL FORESTS AND THEIR IMPACT ON DEFORESTATION MONITORING](#)

[Koyama, Christian](#), Tokyo Denki University, Japan [Watanabe, Manabu](#), Tokyo Denki University, Japan [Hayashi, Masato](#), Japan Aerospace Exploration Agency, Japan [Nagatani, Izumi](#), Japan Aerospace Exploration Agency, Japan [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan [Shimada, Masanobu](#), Tokyo Denki University, Japan

[TH2.R15.6: DETECTION OF SLOW MOVEMENT AREAS IN THE FOREST AREA USING THE TIME SERIES L-BAND SAR INTERFEROMETRY](#)

[Iwatate, Wataru](#), Tokyo Denki University, Japan [Fujiyama, Kaho](#), Tokyo Denki University, Japan [Takahashi, Koya](#), Tokyo Denki University, Japan [Shimada, Masanobu](#), Tokyo Denki University, Japan

[TH2.R15.7: SEASONAL CHANGE ANALYSIS FOR ALOS-2 PALSAR-2 DEFORESTATION DETECTION](#)

[Nagatani, Izumi](#), Japan Aerospace Exploration Agency, Japan [Hayashi, Masato](#), Japan Aerospace Exploration Agency, Japan [Watanabe, Manabu](#), Tokyo Denki University, Japan [Tadono, Takeo](#), Japan Aerospace Exploration Agency, Japan [Watanabe, Tomohiro](#), Japan Aerospace Exploration Agency, Japan [Koyama, Christian](#), Tokyo Denki University, Japan [Shimada, Masanobu](#), Tokyo Denki University, Japan

TH2.R16 - Remote Sensing in the Energy Industry: A Tool to Monitor Environmental Footprints and Reduce Risks Thursday, October 1, 07:30 - 09:30 • Room 16

[TH2.R16.1: THE ENERGY SECTOR: AN OPPORTUNITY FOR ENVIRONMENT SOLUTIONS TO IDENTIFY AND TACKLE CHALLENGES ALL ALONG THE VALUE CHAIN](#)

[Pajot, Emmanuel](#), EARSC, Belgium [Bideaud, Helene](#), Total, France

[TH2.R16.2: MONITORING METHANE EMISSIONS AT INDIVIDUAL OIL AND GAS SITES WITH SATELLITES: A NEW TOOL AT THE DAWN OF GLOBAL TRANSPARENCY](#)

[Gauthier, Jean-Francois](#), GHGSat, Canada

[TH2.R16.3: USE OF SAR IMAGERY AND ARTIFICIAL INTELLIGENCE FOR A MULTI-COMPONENTS OCEAN MONITORING](#)

[Messenger, Christophe](#), Extreme Weather Expertises, France [Tran-Vu, La](#), Extreme Weather Expertises, France [Sahl, Remi](#), Extreme Weather Expertises, France [Dupont, Paco](#), Extreme Weather Expertises, France [Prothon, Etienne](#), Extreme Weather Expertises, France [Honorat, Marc](#), Extreme Weather Expertises, France

[TH2.R16.4: TIMELY UPDATE OF EMISSION FLUXES WITH SATELLITE INFORMATION](#)

[Kushta, Jonilda](#), The Cyprus Institute, Cyprus [Georgiou, George](#), The Cyprus Institute, Cyprus [Lelieveld, Jos](#), Max Planck Institute for Chemistry, Germany

[TH2.R16.5: VALIDATION OF INNOVATIVE SYSTEMS OF REMOTE GAS LEAKS DETECTION AND QUANTIFICATION REDUCING EMISSIONS AND INCREASING SAFETY](#)

[Watremez, Xavier](#), TOTAL, France [Baron, Thierry](#), TOTAL, France [Marblé, André](#), TOTAL, France [Miegebielle, Véronique](#), TOTAL, France [Marcarian, Xavier](#), TOTAL, France [Foucher, Pierre-Yves](#), ONERA, France [Cézard, Nicolas](#), ONERA, France [Raybaut, Myriam](#), ONERA, France

[TH2.R16.6: AUTOMATIC OIL SLICK DETECTION FOR ENVIRONMENTAL DOMAIN USING SYNTHETIC APERTURE RADAR \(SAR\) IMAGES](#)

[Miegebielle, Veronique](#), TOTAL SA, France [Conche, Bruno](#), TOTAL SA, France [Killisly, Clement](#), TOTAL SA, France [Bideaud, Helene](#), TOTAL SA, France [Gomes, Anael](#), TOTAL SA, France [Huang, Zhexuan](#), TOTAL SA, France [Xie, peigen](#), TOTAL SA, France

TH2.R17 - Global Sensing through New Observing Strategies for Local Solutions Thursday, October 1, 07:30 - 09:30 • Room 17

[TH2.R17.1: LEVERAGING SPACE AND GROUND ASSETS IN A SENSORWEB FOR SCIENTIFIC MONITORING: EARLY RESULTS AND OPPORTUNITIES FOR THE FUTURE](#)

[Chien, Steve](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Boerkoel, James](#), Harvey Mudd College, United States [Mason, James](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Wang, Daniel](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Davies, Ashley](#), [Gerard](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Mueting, Joel](#), Planet Labs Inc., United States [Vittaldev, Vivek](#), Planet Labs Inc., United States

[Shah, Vishwa](#), Planet Labs Inc., United States [Zuleta, Ignacio](#), Planet Labs Inc., United States

[TH2.R17.2: COORDINATING OBSERVATION AT GLOBAL AND LOCAL SCALES: SERVICE-ORIENTED PLATFORM TO EVALUATE MISSION ARCHITECTURES](#)

[Grogan, Paul](#), Stevens Institute of Technology, United States [Stern, Jordan](#), Stevens Institute of Technology, United States

[TH2.R17.3: D-SHIELD: DISTRIBUTED SPACECRAFT WITH HEURISTIC INTELLIGENCE TO ENABLE LOGISTICAL DECISIONS](#)

[Nag, Sreeja](#), NASA Ames Research Center, United States [Moghaddam, Mahta](#), University of Southern California, United States [Selva, Daniel](#), Texas A&M University, United States [Frank, Jeremy](#), NASA Ames Research Center, United States [Ravindra, Vinay](#), NASA Ames Research Center, United States [Levinson, Richard](#), NASA Ames Research Center, United States [Azemati, Amir](#), University of Southern California, United States [Aguilar, Alan](#), Texas A&M University, United States [Li, Alan](#), NASA Ames Research Center, United States [Akbar, Ruzbeh](#), Massachusetts Institute of Technology, United States

[TH2.R17.4: SPCTOR: SENSING POLICY CONTROLLER AND OPTIMIZER](#)

[Moghaddam, Mahta](#), University of Southern California, United States [Akbar, Ruzbeh](#), MIT, United States [Prager, Samuel](#), USC, United States [Silva, Agnelo](#), METER Group Inc., United States [Entekhabi, Dara](#), MIT, United States

[TH2.R17.5: EMULATING AND VERIFYING SENSING, COMPUTATION, AND COMMUNICATION IN DISTRIBUTED REMOTE SENSING SYSTEMS](#)

[French, Matthew](#), University of Southern California, United States [Paolieri, Marco](#), University of Southern California, United States [Menon, Vivek](#), University of Southern California, United States [Schmidt, Andrew](#), University of Southern California, United States

[TH2.R17.6: AN INNOVATIVE SPACECUBE APPLICATION FOR ATMOSPHERIC SCIENCE](#)

[Carr, James](#), Carr Astronautics, United States [Wilson, Christopher](#), NASA Goddard Space Flight Center, United States [Wu, Dong](#), NASA Goddard Space Flight Center, United States [French, Matthew](#), USC/ISI, United States [Kelly, Michael](#), Johns Hopkins University Applied Physics Laboratory, United States

[TH2.R17.7: SEISMIC SIGNAL SYNTHESIS BY GENERATIVE ADVERSARIAL NETWORK WITH GATED CONVOLUTIONAL NEURAL NETWORK STRUCTURE](#)

[Li, Yuanming](#), Korea University, Korea (South) [Ku, Bonhwa](#), Korea University, Korea (South) [Kim, Gwantae](#), Korea University, Korea (South) [Ahn, Jae-kwang](#), Korea Meteorological Administrat. Korea (South) [Ko, Hanseuk](#), Korea University, Korea (South)

TH2.R18 - Hyperspectral Unmixing Thursday, October 1, 07:30 - 09:30 • Room 18

[TH2.R18.1: NONLOCAL LOW-RANK NONNEGATIVE TENSOR FACTORIZATION FOR HYPERSPECTRAL UNMIXING](#)

[Xiong, Fengchao](#), Nanjing University of Science and Technology, China [Qian, Kun](#), JiangNan University, China [Lu, Jianfeng](#), Nanjing University of Science and Technology, China [Zhou, Jun](#), Griffith University, Australia [Qian, Yuntao](#), Zhejiang University, China

[TH2.R18.2: AN IMPROVED BILINEAR MIXTURE MODEL CONSIDERING ADJACENCY AND SHADE EFFECTS](#)

[Yang, Bin](#), Donghua University, China [Chen, Zhao](#), Donghua University, China

[TH2.R18.3: HAZARDOUS NOXIOUS SUBSTANCE DETECTION BASED ON HYPERSPECTRAL REMOTE SENSING TECHNIQUE](#)

[Park, Jae-Jin](#), Seoul National University, Korea (South) [Park, Kyung-Ae](#), Seoul National University, Korea (South) [Foucher, Pierre-Yves](#), Office National d'Etudes et Recherches Aérospatiales, France [Deliot, Philippe](#), Office National d'Etudes et Recherches Aérospatiales, France [Le Floch, Stéphane](#), Centre of Documentation, Research and Experimentation on Accidental Water Pollution, France [Kim, Tae-Sung](#), Korea Research Institute of Ships & Ocean Engineering, Korea (South) [Oh, Sangwoo](#), Korea Research Institute of Ships & Ocean Engineering, Korea (South) [Lee, Moonjin](#), Korea Research Institute of Ships & Ocean Engineering, Korea (South)

[TH2.R18.4: SPECTRAL-SPATIAL HYPERSPECTRAL UNMIXING IN TRANSFORMED DOMAINS](#)

[Xu, ChenGuang](#), Nanchang Institute of Technology, China [Zhang, ShaoQuan](#), Nanchang Institute of Technology, China [Deng, Chengzhi](#), Nanchang Institute of Technology, China [Wu, Zhaoming](#), Nanchang Institute of Technology, China

[TH2.R18.5: HYPERSPECTRAL UNMIXING VIA RECURRENT NEURAL NETWORK WITH CHAIN CLASSIFIER](#)

[Lei, Mingyu](#), Xidian University, China [Li, Jie](#), Xidian University, China [Qi, Lin](#), Xidian University, China [Wang, Ying](#), Xidian University, China [Gao, Xinbo](#), Xidian University, China

[TH2.R18.6: SPECTRAL-SPATIAL WEIGHTED SPARSE NONNEGATIVE TENSOR FACTORIZATION FOR HYPERSPECTRAL UNMIXING](#)

[Zhang, Shaoquan](#), Nanchang Institute of Technology, China [Zhang, Guorong](#), Nanchang Institute of Technology, China [Deng, Chengzhi](#), Nanchang Institute of Technology, China [Li, Jun](#), Sun Yat-sen University, China [Wang, Shengqian](#), Nanchang Institute of Technology, China [Wang, Jun](#), Nanchang Institute of Technology, China [Plaza, Antonio](#), University of Extremadura, Spain

[TH2.R18.7: A GEOMETRIC VIEW OF FAST GRAM DETERMINANT-BASED ENDMEMBER EXTRACTION ALGORITHM FOR HYPERSPECTRAL IMAGERY](#)

[Xu, Ning](#), Institute of Electronics, Chinese Academy of Sciences, China [Hu, Yuxin](#), Institute of Electronics, Chinese Academy of Sciences, China [Geng, Xiurui](#), Institute of Electronics, Chinese Academy of Sciences, China [Wang, Yanan](#), Beijing Institute of Track and Communication Technology, China

[TH2.R18.8: MULTI-TEMPORAL HYPERSPECTRAL IMAGES UNMIXING BY MIXED DISTRIBUTION CONSIDERING SMOOTH VARIATION OF ABUNDANCE](#)

[Lu, Youkang](#), Nanjing University of Science and Technology, China [Liu, Hongyi](#), Nanjing University of Science and Technology, China [Wu, Zebin](#), Nanjing University of Science and Technology, China [Wei, Zhihui](#), Nanjing University of Science and Technology, China

[TH2.R18.9: DEEP LEARNING IN HYPERSPECTRAL UNMIXING: A REVIEW](#)

[Bhatt, Jignesh](#), Indian Institute of Information Technology Vadodara, India [Joshi, Manjunath](#), DA-IICT Gandhinagar, India

[TH2.R18.10: HYPERSPECTRAL TARGET DETECTION WITH ROI FEATURE TRANSFORMATION](#)

[Shi, Yanzi](#), Xidian University, China [Li, Jiaojiao](#), Xidian University, China [Li, Yunsong](#), Xidian University, China

TH2.R19 - Satellite Remote Sensing of Atmospheric Composition: Algorithms, Applications, and Process Studies I Thursday, October 1, 07:30 - 09:30 • Room 19

[TH2.R19.1: GLOBAL LAYERED AEROSOL DISTRIBUTIONS FROM CALIOP AND MODIS OBSERVATIONS DURING 2006-2016](#)

[Wang, Lingyu](#), Tsinghua University, China [Lyu, Baolei](#), Huayun Sounding Meteorology Technology Corporation, China [Bai, Yuqi](#), Tsinghua University, China

[TH2.R19.2: MODEL SIMULATION OF ANTHROPOGENIC IMPACTS ON THE NEAR FUTURE CLIMATE](#)

[Nakata, Makiko](#), Kindai University, Japan

[TH2.R19.3: DETECTION OF AEROSOLS ABOVE CLOUDS BASED ON GCOM-C/SGLI MEASUREMENTS](#)

[Mukai, Sonoyo](#), Kyoto College of Graduate Studies for Informatics, Japan [Fujito, Toshiyuki](#), Kyoto College of Graduate Studies for Informatics, Japan [Nakata, Makiko](#), Kindai University, Japan [Sano, Itaru](#), Kindai University, Japan

[TH2.R19.4: RETRIEVAL OF AEROSOL OPTICAL DEPTH \(AOD\) FROM THE LANDSAT8 OLI OBSERVATIONS OVER BEIJING](#)

[Liang, Tianchen](#), Shandong University of Science and Technology, China [Sun, Lin](#), Shandong University of Science and Technology, China

[TH2.R19.5: SMOKE INJECTION HEIGHT OF WILDFIRE EVENT BASED ON MULTI-SOURCE REMOTE SENSING DATA IN YUNNAN PROVINCE, CHINA](#)

[Wang, Wenjia](#), University of Science and Technology of China, China [Zhang, Qixing](#), University of Science and Technology of China, China [Luo, Jie](#), University of Science and Technology of China, China [Zhao, Ranran](#), University of Science and Technology of China, China [Zhang, Yongming](#), University of Science and Technology of China, China

TH2.R19.6: PRELIMINARY EVALUATION OF HIMAWARI-8 HOURLY AEROSOL PRODUCTS OVER CHINA

[Li, Xin](#), Jiangsu Normal University, China [Li, Yingjie](#), Jiangsu Normal University, China [Ma, Qingmiao](#), Jiangsu Normal University, China [Chen, Jing](#), Sun Yat-Sen University, China [Chen, Fang](#), Jiangsu Normal University, China

TH2.R19.7: AEROSOL OPTICAL DEPTH ESTIMATE USING GROUND-MEASURED SPECTRAL SKYLIGHT RATIO METHOD

[Nie, Jing](#), Peking University, China [Ren, Huazhong](#), Peking University, China [Zeng, Hui](#), Peking University, China [Dong, Jiaji](#), Peking University, China [Guo, Jinxin](#), Peking University, China [Zheng, Yitong](#), Peking University, China

TH2.R19.8: OBSERVING URBAN AEROSOLS USING CO-LOCATED NO2 ENHANCEMENT FROM TROPOMI

[Jiang, Fang-Qing](#), Chengdu University of Information Technology, China [Zeng, Zhao-Cheng](#), UCLA/Caltech, United States

TH2.R19.9: IMPACT OF PRECIPITATION ON MILLIMETER-WAVE BACKHAUL LINKS FOR 5G CELLULAR NETWORKS

[Han, Congzheng](#), Institute of Atmospheric Physics, Chinese Academy of Sciences, China [Ji, Baofeng](#), Henan University of Science and Technology, China [Zhang, Gaoyuan](#), Henan University of Science and Technology, China [Huo, Juan](#), Institute of Atmospheric Physics, Chinese Academy of Sciences, China

TH2.R19.10: SOURCE CHARACTERIZATION OF AEROSOLS AND TRENDS DURING 2000-2019 OVER DELHI (INDIA)

[Rai, Ajeet](#), Indian Institute of Technology Mandi, India [Singh, Ramesh P.](#), Chapman University, United States [Shukla, Dericks Praise](#), Indian Institute of Technology, Mandi, India

TH2.R19.11: AEROSOL INVERSION FOR LANDSAT 8 OLI DATA USING DEEP LEARNING ALGORITHM

[Jia, Chen](#), Shandong University of Science and Technology, China [Sun, Lin](#), Shandong University of Science and Technology, China [Wang, Yongji](#), Shandong University of Science and Technology, China

TH2.R20 - Detection of Objects in Complex Environments Thursday, October 1, 07:30 - 09:30 • Room 20

TH2.R20.1: RISK ASSESSMENT OF DRINKING WATER SOURCE BASED ON HIGH SPATIAL RESOLUTION REMOTE SENSING

[Zheng, Yalan](#), Nanjing Normal University, China [Shen, Qian](#), Nanjing Normal University, China [Tao, Shikang](#), Nanjing Normal University, China [Cao, Qi](#), Nanjing Normal University, China [Feng, Chenyang](#), Nanjing Normal University, China [Wang, Min](#), Nanjing Normal University, China

TH2.R20.2: AIRCRAFT TARGET DETECTION IN POLSAR IMAGE BASED ON REGION SEGMENTATION AND MULTI-FEATURE DECISION

[Han, Ping](#), Civil Aviation University of China, China [Lu, Bin](#), Civil Aviation University of China, China [Zhou, Bo](#), Civil Aviation University of China, China [Han, Binbin](#), Civil Aviation University of China, China

TH2.R20.3: INVESTIGATION ON THE METHOD OF ESTABLISHING CONSTRUCTION WASTE TRAINING SAMPLE DATABASE AND ITS APPLICATIONS

[Luo, Ting](#), Beijing University of Civil Engineering and Architecture, China [Zhou, Lei](#), Beijing University of Civil Engineering and Architecture, China [Zhu, Yinnuo](#), Beijing University of Civil Engineering and Architecture, China [Du, Mingyi](#), Beijing University of Civil Engineering and Architecture, China [He, Congcong](#), Beijing University of Civil Engineering and Architecture, China [Wang, Yaji](#), Beijing University of Civil Engineering and Architecture, China [Wang, Siyu](#), Beijing University of Civil Engineering and Architecture, China

Beijing University of Civil Engineering and Architecture, China [Gao, Ting](#), Beijing University of Civil Engineering and Architecture, China

[TH2.R20.4: SPECTRAL-SPATIAL STACKED AUTOENCODERS BASED ON THE BILATERAL FILTER FOR HYPERSPECTRAL ANOMALY DETECTION](#)

[Zhao, Chunhui](#), Harbin Engineering University, China [Li, Chuang](#), Harbin Engineering University, China [Feng, Shou](#), Harbin Engineering University, China [Su, Nan](#), Harbin Engineering University, China

[TH2.R20.5: AUTOMATIC BENTHIC HABITAT MAPPING USING INEXPENSIVE UNDERWATER DRONES](#)

[Gauci, Adam](#), University of Malta, Malta [Deidun, Alan](#), University of Malta, Malta [Abela, John](#), University of Malta, Malta [Cachia, Ernest](#), University of Malta, Malta [Dimech, Sean](#), University of Malta, Malta

[TH2.R20.6: DETECTION OF RAIL FASTENERS FROM AERIAL IMAGES USING DEEP CONVOLUTION NEURAL NETWORKS](#)

[Ranyal, Eshta](#), Indian Institute of Technology, Roorkee, India [Jain, Kamal](#), Indian Institute of Technology, Roorkee, India

[TH2.R20.7: SEISMIC FAULT ANALYSIS USING CURVATURE ATTRIBUTE AND VISUAL SALIENCY](#)

[Singh, Gagandeep](#), Indian Institute of Technology Kharagpur, India [Mahadik, Rahul](#), Indian Institute of Technology Kharagpur, India [Mohanty, William K.](#), Indian Institute of Technology Kharagpur, India [Routray, Aurobinda](#), Indian Institute of Technology Kharagpur, India

[TH2.R20.8: OIL SPILL DETECTION FROM SAR IMAGES BY DEEP LEARNING](#)

[Ronci, Federico](#), University of Rome Tor Vergata, Italy [Avolio, Corrado](#), e-GEOS - an Italian Space Agency and Telespazio company, Italy [Di Donna, Mauro](#), e-GEOS - an Italian Space Agency and Telespazio company, Italy [Zavagli, Massimo](#), e-GEOS - an Italian Space Agency and Telespazio company, Italy [Piccialli, Veronica](#), University of Rome Tor Vergata, Italy [Costantini, Mario](#), e-GEOS - an Italian Space Agency and Telespazio company, Italy

[TH2.R20.9: MAPPING ELECTRIC TRANSMISSION LINE INFRASTRUCTURE FROM AERIAL IMAGERY WITH DEEP LEARNING](#)

[Hu, Wei](#), Duke University, United States [Alexander, Ben](#), Duke University, United States [Cathcart, Wendell](#), Duke University, United States [Hu, Atsushi](#), Duke University, United States [Nair, Varun](#), Duke University, United States [Zuo, Lin](#), Duke University, United States [Malof, Jordan](#), Duke University, United States [Collins, Leslie](#), Duke University, United States [Bradbury, Kyle](#), Duke University, United States

[TH2.R20.10: OIL TANK DETECTION IN SATELLITE IMAGES VIA A CONTRARIO CLUSTERING](#)

[Tadros, Antoine](#), Ecole Normale Supérieure Paris-Saclay, France [Drouyer, Sébastien](#), Ecole Normale Supérieure Paris-Saclay, France [Grompone von Gioi, Rafael](#), Ecole Normale Supérieure Paris-Saclay, France [Carvalho, Lucas](#), Kayrros, France

[TH2.R20.11: FEATURE-BASED TEMPLATE MATCHING FOR JOGGLED FISHPLATE DETECTION IN RAILROAD TRACK WITH DRONE IMAGES](#)

[Saini, Aradhya](#), Indian Institute of Technology Roorkee, India [Agarwal, Ankush](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

[TH2.R20.12: AN ALGORITHM FOR BURIED PIPELINE DETECTION USING A 3-D BISTATIC IMAGING RADAR](#)

[Aljurbua, Abdulrahman](#), University of Michigan, United States [Sarabandi, Kamal](#), University of Michigan, United States

FR1.R1 - Soils and Hydrology

Friday, October 2, 05:00 - 07:00 • Room 1

[FR1.R1.1: IMPROVEMENT OF SOIL TEXTURE CLASSIFICATION WITH LIDAR DATA](#)

[Pittman, Rory](#), York University, Canada [Hu, Baoxin](#), York University, Canada

[FR1.R1.2: RESEARCH ON WATER SUITABILITY OF MAIZE PLANTING RANGE IN NORTHEAST CHINA](#)

[Li, Lei](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China [Li, Xiaofeng](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China [Zheng, Xingming](#), Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China

[FR1.R1.3: USE OF X-RAY FLUORESCENCE TO EXPEDITE SAMPLING TO EVALUATE AND VISUALIZE SOIL LEAD CONCENTRATIONS AT WEST POINT, NY](#)

[Wallen, Benjamin](#), United States Military Academy, United States [Kimball, Mindy](#), United States Military Academy, United States [Wright, William](#), United States Military Academy, United States [Sheehan, Nathaniel](#), United States Military Academy, United States [Flagg, Timothy](#), United States Military Academy, United States [Avellaneda-Ruiz, Antonio](#), United States Military Academy, United States [Bier, Peter](#), United States Military Academy, United States

[FR1.R1.4: ASSESSMENT OF MODEL-BASED SURFACE SOIL TEMPERATURE PRODUCTS UNSING GLOBAL DENSE IN-SITU OBSERVATIONS](#)

[Ma, Hongliang](#), Wuhan University, China [Zeng, Jiangyuan](#), State Key Laboratory of Remote Sensing Science, Chinese Academy of Sciences, China [Zhang, Xiang](#), Wuhan University, China [Chen, Nengcheng](#), Wuhan University, China

[FR1.R1.5: ASSESSMENT OF HEAVY METAL POLLUTION IN AGRICULTURAL SOIL AROUND A GOLD MINE AREA IN YITONG COUNTY](#)

[Wu, Fuyu](#), China University of Mining and Technology, China [Wang, Xue](#), East China Normal University, China [Tan, Kun](#), East China Normal University, China [Liu, Zhaoxian](#), Second Surveying and Mapping Institute of Hebei, China

[FR1.R1.6: EVALUATING LAND SURFACE MOISTURE CONDITIONS BEFORE AND AFTER FLASH-FLOOD STORM FROM OPTICAL AND THERMAL DATA: MODELS COMPARISON AND VALIDATION](#)

[Bannari, Abderrazak](#), Arabian Gulf University, Bahrain [Bahi, Hicham](#), Mohammed VI Polytechnic University, Benguerir, Morocco [Rhinane, Hassan](#), Faculty of Sciences Ain Chock, University Hassan II, Morocco

[FR1.R1.7: SOILSCAPE WIRELESS IN SITU NETWORKS IN SUPPORT OF CYGNSS LAND APPLICATIONS](#)

[Akbar, Ruzbeh](#), MIT, United States [Campbell, James](#), University of Southern California, United States [Silva, Agnelo](#), METER Group Inc., United States [Chen, Richard](#), University of Southern California, United States [Hodges, Erik](#), University of Southern California, United States [Entekhabi, Dara](#), MIT, United States [Ruf, Chris](#), University of Michigan - Ann Arbor, United States [Moghaddam, Mahta](#), University of Southern California, United States

[FR1.R1.8: SOIL MOISTURE ESTIMATION BY USING MULTI-ANGULAR AND MULTI-TEMPORAL OBSERVATIONS FROM SMOS](#)

[Bai, Yu](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Jia, Li](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhao, Tianjie](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Shi, Jiancheng](#), State Key Laboratory of Remote Sensing Science, Aerospace Information Research Institute, Chinese Academy of Sciences, China

[FR1.R1.9: TIME-OF-FLIGHT SOIL MOISTURE ESTIMATION USING RF BACKSCATTER TAGS](#)

[Josephson, Colleen](#), Stanford University, United States [Barnhart, Bradley](#), Stanford University, United States [Winstein, Keith](#), Stanford University, United States [Katti, Sachin](#), Stanford University, United States [Chandra, Ranveer](#), Microsoft, United States

[FR1.R1.10: DESIGN AND EXPERIMENT OF MICROWAVE SOIL MOISTURE SENSOR](#)

[Gao, Bo](#), University of Electronic Science and Technology of China, China [Chen, Zihan](#), University of Electronic Science and Technology of China, China [Gong, Xun](#), University of Electronic Science and Technology of China, China [Wang, Peicheng](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China

[FR1.R1.11: EVALUATION OF THE EFFECTS OF HETEROGENEOUS SOIL MOISTURE ON MEASURED BRIGHTNESS TEMPERATURE BY A MICROWAVE RADIOMETER](#)

[Zhang, Tao](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Zhao, Shaojie](#), State Key Laboratory of Earth Surface Processes and Resource Ecology, Faculty of Geographical Science, China [Wang, Guanghui](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Dai, Hailun](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China [Li, Yunqing](#), School of Urban Construction, Beijing City University, China [Liu, Yu](#), Land Satellite Remote Sensing Application Center, Ministry of Natural Resources of China, China

[FR1.R1.12: TOWARDS SUSTAINABLE GROUNDWATER MANAGEMENT: PREDICTING DEFORMATION SCENARIOS WITH COUPLED HYDROGEOPHYSICAL MODELS](#)

[Smith, Ryan](#), Missouri University of Science and Technology, United States [Knight, Rosemary](#),

FR1.R2 - Machine Learning for Earth Friday, October 2, 05:00 - 07:00 • Room 2 Observation II

[FR1.R2.1: CLASSIFYING GLOBAL LOW CLOUD MORPHOLOGY WITH A DEEP LEARNING MODEL: RESULTS AND POTENTIAL USE](#)

[Yuan, Tianle](#), NASA GFSC / UMBC JCET, United States [Song, Hua](#), NASA GFSC / SSAI, United States [Mohrmann, John](#), Univ. of Washington, United States [Wood, Robert](#), Univ. of Washington, United States [Meyer, Kerry](#), NASA Goddard Space Flight Center, United States [Oreopoulos, Lazaros](#), NASA Goddard Space Flight Center, United States [Platnick, Steven](#), NASA Goddard Space Flight Center, United States

[FR1.R2.2: DEEP RECURRENT NEURAL NETWORK FOR CROP CLASSIFICATION TASK BASED ON SENTINEL-1 AND SENTINEL-2 IMAGERY](#)

[Kussul, Nataliia](#), Space Research Institute, Ukraine [Lavreniuk, Mykola](#), Space Research Institute, Ukraine [Shumilo, Leonid](#), Space Research Institute, Ukraine

[FR1.R2.3: A FAST SEARCH SYSTEM FOR REMOTE SENSING IMAGERY BASED ON BAG OF VISUAL WORDS AND LATENT DIRICHLET ALLOCATION](#)

[Karmakar, Chandrabali](#), German Aerospace Center (DLR), Germany [Datcu, Mihai](#), German Aerospace Center (DLR), Germany

[FR1.R2.4: COMPLEXITY ANALYSIS OF AN EDGE PRESERVING CNN SAR DESPECKLING ALGORITHM](#)

[Vitale, Sergio](#), Università di Napoli Parthenope, Italy [Ferraoli, Giampaolo](#), Università di Napoli Parthenope, Italy [Pascasio, Vito](#), Università di Napoli Parthenope, Italy

[FR1.R2.5: A DECEPTIVE JAMMING TEMPLATE SYNTHESIS METHOD FOR SAR USING GENERATIVE ADVERSARIAL NETS](#)

[Fan, Weiwei](#), Xidian University, China [Zhou, Feng](#), Xidian University, China [Tian, Tian](#), Xidian University, China

[FR1.R2.6: IDENTIFYING SEA ICE RIDGING IN SAR IMAGERY USING CONVOLUTIONAL NEURAL NETWORKS](#)

[Sola, Daniel](#), University of Waterloo, Canada [Nagi, Anmol Sharan](#), University of Waterloo, Canada [Scott, K Andrea](#), University of Waterloo, Canada

[FR1.R2.7: MULTI-SCALE AND TEMPORAL TRANSFER LEARNING FOR AUTOMATIC TRACKING OF INTERNAL ICE LAYERS](#)

[Yari, Masoud](#), University of Maryland, Baltimore County, United States [Rahnemoonfar, Maryam](#), University of Maryland, Baltimore County, United States [Paden, John](#), Kansas University, United States

[FR1.R2.8: THE SMART ICE CLOUD SENSING \(SMICES\) SMALLSAT CONCEPT](#)

[Bosch Lluís, Xavier](#), NASA Jet Propulsion Laboratory, United States [Ogut, Mehmet](#), NASA Jet Propulsion Laboratory, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, United States [Kangaslahti, Pekka](#), NASA Jet Propulsion Laboratory, United States [Jiang, Jonathan](#), NASA Jet Propulsion Laboratory, United States [Schlecht, Erich](#), NASA Jet Propulsion Laboratory, United States [Deal, William](#), Northrop Grumman Corporation, United States

[FR1.R2.9: SCHEDULING MISSION RECONFIGURATION FOR AN INTERFEROMETRY SYNTHETIC APERTURE RADAR USING DEEP REINFORCEMENT LEARNING](#)

[Viros-i-Martin, Antoni](#), Texas A&M University, United States [Selva, Daniel](#), Texas A&M University, United States [Alimo, Ryan](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

FR1.R2.10: DATA MINING ON THE CANDELA CLOUD PLATFORM

[Yao, Wei](#), German Aerospace Center, Germany [Dumitru, Octavian](#), German Aerospace Center, Germany [Lorenzo, Jose](#), ATOS SPAIN SA, Spain [Datcu, Mihai](#), German Aerospace Center, Germany

FR1.R2.11: THE SMART ICE CLOUD SENSING (SMICES) SMALLSAT INSTRUMENT ARTIFICIAL INTELLIGENCE STRATEGIES

[Ogut, Mehmet](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Bosch-Lluis, Xavier](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Misra, Sidharth](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kangaslahti, Pekka](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Jiang, Jonathan](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Schlecht, Frich](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Deal, William](#), Northrop Grumman Corporation, United States [Leong, Kevin](#), Northrop Grumman Corporation, United States [Cooke, Caitlyn](#), Northrop Grumman Corporation, United States [Kreischer, Ken](#), Northrop Grumman Corporation, United States [Tucek, John](#), Northrop Grumman Corporation, United States

FR1.R2.12: PENALTY DRIVEN TRAINING SAMPLE REFINEMENT TECHNIQUE FOR HYPERSPECTRAL IMAGES CLASSIFICATION USING ANT COLONY OPTIMIZATION

[Sharma, Shakti](#), Bennett University, India

FR1.R3 - SAR Polarimetry: Theory and Applications Friday, October 2, 05:00 - 07:00 • Room 3

FR1.R3.1: ASSESSMENT OF POLSAR AND INSAR TIME-SERIES FROM THE 2019 NASA AM-PM CAMPAIGN FOR ABOVE-GROUND BIOMASS ESTIMATION

[Lavalle, Marco](#), NASA Jet Propulsion Laboratory, United States [Khati, Unmesh](#), NASA Jet Propulsion Laboratory, United States [Shiroma, Gustavo](#), NASA Jet Propulsion Laboratory, United States [Chapman, Bruce](#), NASA Jet Propulsion Laboratory, United States

FR1.R3.2: POLSAR ANALYSIS OF COHERENT AND DIFFUSE DOUBLE-BOUNCE SCATTERING OCCURING WITHIN A VEGETATED MEDIUM

[Abdo, Ray](#), IETR, France [Ferro-Famil, Laurent](#), IETR, France

FR1.R3.3: SPACEBORNE TRANSMITTER - STATIONARY RECEIVER BISTATIC SAR POLARIMETRY - EXPERIMENTAL RESULTS

[Ciuca, Madalina](#), Grenoble INP / University POLITEHNICA of Bucharest, France [Anghel, Andrei](#), University Politehnica of Bucharest, Romania [Cacoveanu, Remus](#), University Politehnica of Bucharest, Romania [Vasile, Gabriel](#), CNRS / Grenoble INP, France [Gay, Michel](#), CNRS / Grenoble INP, France [Ciochina, Silviu](#), University Politehnica of Bucharest, Romania

FR1.R3.4: POLARIMETRIC GUIDED NONLOCAL MEANS COVARIANCE MATRIX ESTIMATION FOR DEFOLIATION MAPPING

[Agersborg, Jørgen](#), UiT The Arctic University of Norway, Norway [Anfinssen, Stian Normann](#), UiT The Arctic University of Norway, Norway [Jepsen, Jane Uhd](#), Norwegian Institute for Nature Research (NINA), Norway

FR1.R3.5: ANALYSIS OF SINGLE-POL AND QUAD-POL DAMAGE INDICATORS FOR EXTRACTION OF BUILDING DAMAGES CAUSED BY 2016 KUMAMOTO EARTHQUAKE

[Park, Sang-Eun](#), Sejong University, Korea (South) [Lee, Yeji](#), Sejong University, Korea (South) [Kim, Minhwa](#), Sejong University, Korea (South) [Jung, Yoon Taek](#), Sejong University, Korea (South)

FR1.R3.6: A NEW WAY FOR DETECTING MAN-MADE TARGETS AND STRUCTURES WITHIN FORESTS USING TIME SERIES OF POLARIMETRIC SAR IMAGES.

[Taillade, Thibault](#), CentraleSupélec, France [Thirion-Lefevre, Laetitia](#), CentraleSupélec, France [Guinvarc'h, Régis](#), CentraleSupélec, France

FR1.R3.7: THE EFFECT OF HYBRID POLARIMETRIC DESCRIPTORS ON CLASSIFICATION ACCURACY OF VARIOUS LAND COVER TYPES

[Turkar, Varsha](#), Don Bosco College of Engineering, India [De, Shaunak](#), Orbital Insight, United States [Das, Anup](#), Space Application Center, ISRO, India [Shitole, Sanjay](#), UMIT, S.N.D.T. Women's University, India [Deo, Rinki](#), Havard University, India [Patnaik, Kaushik](#), Orbital Insight, United States

FR1.R3.8: LAND COVER CLASSIFICATION WITH CPOLINSAR IMAGE VIA M-DELTA DECOMPOSITION AND OPTIMAL POLARIMETRIC COHERENCE COEFFICIENT

[Xing, Cheng](#), Tsinghua University, China [Xu, Liying](#), Shanghai Institute of Satellite Engineering, China [Yin, Junjun](#), University of Science and Technology Beijing, China [Yang, Jian](#), Tsinghua University, China

FR1.R4 - Wetlands and Inland Waters II Friday, October 2, 05:00 - 07:00 • Room 4

FR1.R4.1: FIRST ASSESSMENT OF NOVASAR-1 S-BAND SAR BACKSCATTER CHARACTERISTICS OVER TROPICAL WETLANDS

[Rosenqvist, Ake](#), solo Earth Observation, Japan [Parker, Amy](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Zhou, Zheng-Shu](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Brindle, Laura](#), Commonwealth Scientific and Industrial Research Organisation, Australia [Held, Alex](#), Commonwealth Scientific and Industrial Research Organisation, Australia

FR1.R4.2: MINING EXPORTS AND CLIMATE VARIABILITY INFLUENCING GRACE-DERIVED WATER STORAGE TREND ESTIMATES IN AUSTRALIA

[Castellazzi, Pascal](#), CSIRO, Australia [Chopping, Richard](#), Government of Western Australia, Australia [Brouard, Charles](#), (Former) INRS, Canada

FR1.R4.3: TRACKING CHANGES IN INUNDATION EXTENT OF A BOREAL WETLAND IN ALASKA USING L-BAND SAR

[Chapman, Bruce](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Kasischke, Eric](#), University of Maryland, United States [French, Nancy](#), Michigan Tech Research Institute, United States [Rupp, Danielle](#), Michigan Tech, United States [Kane, Evan](#), Michigan Tech, United States

FR1.R4.4: SWOT APPLICATIONS FOR WRF-HYDRO MODELING IN ALASKA

[Elmer, Nicholas](#), NASA Postdoctoral Program, United States [Hain, Christopher](#), NASA Marshall Space Flight Center, United States [McCreight, James](#), National Center for Atmospheric Research, United States [Gochis, David](#), National Center for Atmospheric Research, United States

FR1.R4.5: AN ANALYSIS OF ICESAT-2, PALSAR-2 AND SENTINEL-1 DATA FOR THE ASSESSMENT OF INUNDATION CHARACTERISTICS IN THE AMAZON BASIN

[Rosenqvist, Jessica](#), City University of New York, United States [Rosenqvist, Ake](#), solo Earth Observation (soloEO), Japan [McDonald, Kyle](#), City University of New York, United States

FR1.R4.6: STUDY FLOOD REGIME USING HIGH TEMPORAL RESOLUTION SENTINEL-1 IMAGES

[Ho Tong Minh, Dinh](#), INRAE, France [El Moussawj, Ibrahim](#), INRAE, France [Ngo, Yen-Nhi](#), INRAE, France [Baghdadi, Nicolas](#), INRAE, France [Blatrix, Rumais](#), University of Montpellier, France [McKey, Doyle](#), University of Montpellier, France

FR1.R4.7: GLOBAL WEEKLY INLAND SURFACE WATER DYNAMICS FROM L-BAND MICROWAVE

[Al Bitar, Ahmad](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Parrens, Marie](#), Université de Purpan, France [Fratras, Christophe](#), CLS, France [Pena Luque, Santiago](#), CNES, France

FR1.R4.8: CHANGES IN WATER SURFACE AREA DURING THE PAST 30 YEARS IN A RAMSAR WETLAND IN DURANGO, MEXICO USING LANDSAT DATA

[Sandoval, Sarahi](#), CONACYT-IPN, Mexico [Escobar, Jonathan G](#), Instituto Politecnico Nacional, Mexico

FR1.R4.9: COMPREHENSIVE ANALYSIS OF CO2 FLUXES AND REFLECTANCE

CORRELATIONS IN THE WETLAND ECOSYSTEM

[Cieřkowski, Wojciech](#), Warsaw University of Life Sciences, Poland [Kleniewska, Małgorzata](#), Warsaw University of Life Sciences, Poland [Chormański, Jarosław](#), Warsaw University of Life Sciences, Poland

FR1.R4.10: POYANG LAKE VEGETATION BIOMASS INVERSION USING RADARSAT-2 POLSAR DATA AND SIMPLIFIED WATER-CLOUD MODEL

[Shen, Guozhuang](#), RAD, CAS, China [Li, Chunjiang](#), RAD, CAS, China

FR1.R4.11: CONVOLUTIONAL NEURAL NETWORK FOR COASTAL WETLAND CLASSIFICATION IN HYPERSPECTRAL IMAGE

[Liu, Chang](#), Beijing Institute of Technology, China [Zhang, Mengmeng](#), Beijing Institute of Technology, China [Li, Wei](#), Beijing Institute of Technology, China [Sun, Weiwei](#), Ningbo University, China [Tao, Ran](#), Beijing Institute of Technology, China

FR1.R4.12: INVESTIGATION OF THE ABILITY OF A PASSIVE MICROWAVE SENSOR TO MONITOR SURFACE WATER OVER COMPLEX LANDSCAPE IN EASTERN SIBERIA

[Mizuochi, Hiroki](#), National Institute of Advanced Industrial Science and Technology, Japan [Hiyama, Tetsuya](#), Nagoya University, Japan

FR1.R5 - Networks and Time Series Friday, October 2, 05:00 - 07:00 • Room 5
Methods for Remote Sensing

FR1.R5.1: UNSUPERVISED SEQUENTIAL CLASSIFICATION OF MODIS TIME-SERIES

[Grobler, Trienko](#), Stellenbosch University, South Africa [Kleynhans, Waldo](#), University of Pretoria, South Africa [Salmon, Brian](#), University of Tasmania, Australia [Burger, Christiaan](#), Stellenbosch University, South Africa

FR1.R5.2: EMPLOYING DEEP LEARNING TO ENABLE VISUAL EXPLORATION OF EARTH SCIENCE EVENTS

[Maskey, Manil](#), NASA Marshall Space Flight Center, United States [Ramachandran, Rahul](#), NASA Marshall Space Flight Center, United States [Gurung, Iksha](#), University of Alabama in Huntsville, United States [Ramasubramanian, Muthukumaran](#), University of Alabama in Huntsville, United States [Freitag, Brian](#), University of Alabama in Huntsville, United States [Kaulfus, Aaron](#), University of Alabama in Huntsville, United States [Priftis, Georgios](#), University of Alabama in Huntsville, United States [Bollinger, Drew](#), Development Seed, United States [Mestre, Ricardo](#), Development Seed, United States [da Silva, Daniel](#), Development Seed, United States

FR1.R5.3: A QUANTITATIVE ANALYSIS ON THE USE OF SUPERVISED MACHINE LEARNING IN EARTH SCIENCE

[Virts, Katrina](#), University of Alabama in Huntsville, United States [Shirey, Ashlyn](#), University of Alabama in Huntsville, United States [Priftis, George](#), University of Alabama in Huntsville, United States [Ankur, Kumar](#), University of Alabama in Huntsville, United States [Ramasubramanian, Muthukumaran](#), University of Alabama in Huntsville, United States [Muhammad, Hassan](#), University of Alabama in Huntsville, United States [Acharya, Ashish](#), University of Alabama in Huntsville, United States [Ramachandran, Rahul](#), National Aeronautics and Space Administration, United States

FR1.R5.4: CLOUD DETECTION USING GABOR FILTERS AND ATTENTION-BASED CONVOLUTIONAL NEURAL NETWORK FOR REMOTE SENSING IMAGES

[Zhang, Jing](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Zhou, Qin](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Wang, Hui](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Wang, Yuchen](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Li, Yunsong](#), State Key Laboratory of Integrated Service Networks, Xidian University, China

FR1.R5.5: IMPROVED CLOUD DETECTION MODEL USING S-NPP CRIS FSR DATA VIA MACHINE LEARNING

[Zhang, Mengfan](#), University of Electronic Science and Technology of China, China [Chen, Hao](#), University of Electronic Science and Technology of China, China [Liu, Guanghui](#), University of Electronic Science and Technology of China, China [Tian, Miao](#), University of Electronic Science and Technology of China, China

FR1.R5.6: LABEL SMOOTHING TECHNIQUE FOR ORDINAL CLASSIFICATION IN CLOUD ASSESSMENT

[Wei, Yuxuan](#), East China Normal University, China [Liu, Qixuan](#), East China Normal University, China [Zhang, Guixu](#), East China Normal University, China [Peng, Yaxin](#), Shanghai University, China [Shen, Chaomin](#), East China Normal University, China

FR1.R5.7: NEW NETWORK BASED ON UNET++ AND DENSENET FOR BUILDING EXTRACTION FROM HIGH RESOLUTION SATELLITE IMAGERY

[Tong, Zhonggui](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Li, Yuzhen](#), ChengDu Software Industry Development Center, China [Fan, Kunlong](#), University of Electronic Science and Technology of China, China [Si, Yu](#), University of Electronic Science and Technology of China, China [He, Lei](#), Chengdu University of Information Technology, China

FR1.R5.8: DETECTION OF SOLAR CORONAL MASS EJECTIONS FROM RAW IMAGES WITH DEEP CONVOLUTIONAL NEURAL NETWORKS

[Valsesia, Diego](#), Politecnico di Torino, Italy [Grippi, Andrea](#), Politecnico di Torino, Italy [Magli, Enrico](#), Politecnico di Torino, Italy [Susino, Roberto](#), National Institute for Astrophysics - Astrophysical Observatory of Torino, Italy [Telloni, Daniele](#), National Institute for Astrophysics - Astrophysical Observatory of Torino, Italy [Nicolini, Gianalfredo](#), National Institute for Astrophysics - Astrophysical Observatory of Torino, Italy [Casti, Marta](#), ALTEC SpA, Italy [Mulone, Angelo Fabio](#), ALTEC SpA, Italy [Messineo, Rosario](#), ALTEC SpA, Italy

FR1.R5.9: VESSEL DETECTION USING IMAGE PROCESSING AND NEURAL NETWORKS

[Bereta, Konstantina](#), MarineTraffic, Greece [Grasso, Raffaele](#), NATO-STO-CMRE, Italy [Zissis, Dimitris](#), University of the Aegean, Greece

FR1.R5.10: SATELLITE-DERIVED BATHYMETRY USING DEEP CONVOLUTIONAL NEURAL NETWORK

[Wilson, Bibin](#), Indian Institute of Technology Bombay, India [Kurian, Nikhil Cherian](#), Indian Institute of Technology Bombay, India [Singh, Anand](#), Indian Institute of Technology Bombay, India [Sethi, Amit](#), Indian Institute of Technology Bombay, India

FR1.R5.11: HUMAN IDENTIFICATION USING MICRO-MOTION AND LIGHTWEIGHT NEURAL NETWORKS

[Sun, Li](#), Xi'an Jiaotong University, China [Xu, Hua](#), Airforce Engineering University, China [Zhang, Guohe](#), Xi'an Jiaotong University, China [Liang, Feng](#), Xi'an Jiaotong University, China [Tian, Zhichao](#), Xi'an Jiaotong University, China [Yuan, Yanxin](#), Airforce Engineering University, China

FR1.R5.12: LARGE-SCALE PRECISE MAPPING OF AGRICULTURAL FIELDS IN SENTINEL-2 SATELLITE IMAGE TIME SERIES

[Solano-Correa, Yady Tatiana](#), Fondazione Bruno Kessler, Italy [Carcnereri, Daniel](#), University of Trento, Italy [Bovolo, Francesca](#), Fondazione Bruno Kessler, Italy [Bruzzone, Lorenzo](#), University of Trento, Italy

FR1.R6 - Image and Data Fusion II

Friday, October 2, 05:00 - 07:00 • Room 6

FR1.R6.1: A ROBUST MATCHING METHOD FOR OPTICAL AND SAR IMAGES BASED ON COARSE-TO-FINE MECHANISM

[Li, Cong](#), Xidian University, China [Chen, Shuxuan](#), Beijing Aerospace Automatic Control Institute, China [Sun, Kun](#), Xidian University, China [Liang, Yi](#), Xidian University, China

FR1.R6.2: MULTIMODAL DATA FUSION VIA ENTROPY MINIMIZATION

[Michalenko, Joshua](#), Sandia National Laboratories, United States [Linville, Lisa](#), Sandia National Laboratories, United States [Anderson, Dylan](#), Sandia National Laboratories, United States

FR1.R6.3: A GLOBAL ANALYSIS OF PASSIVE MICROWAVE BRIGHTNESS TEMPERATURE DIURNAL CYCLE

[Sharifnezhad, Zahra](#), CUNY - CCNY, United States [Norouzi, Hamid](#), CUNY - citytech, United States [Blake, Reginald](#), CUNY - citytech, United States [Gil, Emmanuel](#), CUNY - citytech, United States

FR1.R6.4: DEVELOPMENT OF STATISTICAL BASED DECISION TREE ALGORITHM FOR MIXED CLASS CLASSIFICATION WITH SENTINEL-2 DATA

[Singh, Vatsala](#), Mody University of Science and Technology, Rajasthan, India, India [Singh, Keshava P](#), IIT (BHU) Varanasi, India

FR1.R6.5: SUPERPIXEL BASED SPATIAL AND TEMPORAL ADAPTIVE REFLECTANCE FUSION MODEL

[Wang, Wei](#), China University of Petroleum (East China), China [Sun, Genyun](#), China University of Petroleum (East China), China [Yao, Yanjuan](#), Ministry of Environmental protection of China, China [Zhang, Aizhu](#), China University of Petroleum (East China), China

FR1.R6.6: HYPERSPECTRAL IMAGE RESTORATION VIA GLOBAL TOTAL VARIATION REGULARIZED LOCAL NONCONVEX LOW-RANK MATRIX APPROXIMATION

[Zeng, Haijin](#), Northwest A&F University, China [Xie, Xiaozhen](#), Northwest A&F University, China [Ning, Jifeng](#), Northwest A&F University, China

FR1.R6.7: EFFECTS OF UNBALANCED DATA ON RADIOMETRIC TRANSFORMING MODEL FITTING FOR RELATIVE RADIOMETRIC NORMALIZATION

[Gan, Wenxia](#), Wuhan Institute of Technology, China [Geng, Jing](#), Beijing Institute of Technology, China [Wang, Yu](#), Beijing Institute of Technology, China [Yu, Weihang](#), Beijing Institute of Technology, China [Xu, Jinying](#), Wuhan Institute of Technology, China [Yuan, Hanning](#), Beijing Institute of Technology, China [Qin, Rongjun](#), The Ohio State University, China

FR1.R6.9: DOWN-SCALING MODIS VEGETATION PRODUCTS WITH LANDSAT GAP FILLED SURFACE REFLECTANCE IN GOOGLE EARTH ENGINE

[Moreno-Martinez, Alvaro](#), Universitat de València, Spain [Izquierdo-Verdiguier, Emma](#), University of Natural Resources and Life Sciences (BOKU), Austria [Camps-Valls, Gustau](#), Universitat de València, Spain [Maneta, Marco](#), University of Montana, United States [Muñoz-Marí, Jordi](#), Universitat de València, Spain [Robinson, Nathaniel](#), University of Montana, United States [Adsuara, Jose E.](#), Universitat de València, Spain [Campos, Manuel](#), Universitat de València, Spain [García-Haro, Javier](#), Universitat de València, Spain [Perez, Adrian](#), Universitat de València, Spain [Clinton, Nicholas](#), Google, United States [Kimball, John](#), University of Montana, United States [Running, Steven W.](#), University of Montana, United States

FR1.R6.10: HYPERSPECTRAL ANOMALY DETECTION VIA BAND FUSION

[Li, Fang](#), Dalian Maritime University, China [Song, Meiping](#), Dalian Maritime University, China [Chang, Chein-I](#), Dalian Maritime University / University of Maryland, China

FR1.R6.11: FUSION OF SAR AND OPTICAL REMOTE SENSING IMAGES BASED ON DEEP CONVOLUTION GENERATIVE ADVERSARIAL NETWORKS

[Ning, Yuanyong](#), Beijing University of Posts and Telecommunications, China [You, Yanan](#), Beijing University of Posts and Telecommunications, China [Cao, Jingyi](#), Beijing University of Posts and Telecommunications, China [Liu, Fang](#), Beijing University of Posts and Telecommunications, China

FR1.R6.12: A FUSION METHOD OF SAR IMAGE AND OPTICAL IMAGE BASED ON NSCT AND GRAM-SCHMIDT TRANSFORM

[Yan, Biyuan](#), Nanjing University of Aeronautics and Astronautics, China [Kong, Yingying](#), Nanjing University of Aeronautics and Astronautics, China

FR1.R7 - Data Fusion: The AI Era

Friday, October 2, 05:00 - 07:00 • Room 7

FR1.R7.1: CHANGE DETECTION WITH HETEROGENEOUS REMOTE SENSING DATA: FROM SEMI-PARAMETRIC REGRESSION TO DEEP LEARNING

[Moser, Gabriele](#), University of Genoa, Italy [Anfinssen, Stian](#), UiT The Arctic University of Norway, Norway [Luppino, Luigi](#), UiT The Arctic University of Norway, Norway [Serpico, Sebastiano](#), University of Genoa, Italy

FR1.R7.2: ADDRESSING RELIABILITY OF MULTIMODAL REMOTE SENSING TO ENHANCE MULTISENSOR DATA FUSION AND TRANSFER LEARNING

[Marinoni, Andrea](#), UiT The Arctic University of Norway, Norway [Chlailly, Saloua](#), UiT The Arctic University of Norway, Norway [Jutten, Christian](#), University of Grenoble Alpes, France

FR1.R7.3: POWER SERIES MODULE FOR SEMANTIC SEGMENTATION IN REMOTE SENSING IMAGE

[Yang, Kunping](#), State Key Laboratory of LIESMARS, Wuhan University, China [Liu, Zicheng](#), State Key Laboratory of LIESMARS, Wuhan University, China [Xia, Gui-Song](#), State Key Laboratory of LIESMARS, Wuhan University, China [Zhang, Liangpei](#), State Key Laboratory of LIESMARS, Wuhan University, China

FR1.R7.4: FILTERING INTERNAL TIDES FROM WIDE-SWATH ALTIMETER DATA USING CONVOLUTIONAL NEURAL NETWORKS

[Lguensat, Redouane](#), Université Grenoble Alpes, France [Fablet, Ronan](#), IMT Atlantique, France [Le Sommer, Julien](#), Université Grenoble Alpes, France [Metref, Sammy](#), Université Grenoble Alpes, France [Cosme, Emmanuel](#), Université Grenoble Alpes, France [Ouenniche, Kaouther](#), IMT Atlantique, France [Drumetz, Lucas](#), IMT Atlantique, France [Gula, Jonathan](#), Ifremer, France

FR1.R7.5: REFERENCE-FREE DESPECKLING OF SYNTHETIC-APERTURE RADAR IMAGES USING A DEEP CONVOLUTIONAL NETWORK

[Davis, Timothy](#), Technische Universität Berlin, Germany [Jain, Vinit](#), Technische Universität Berlin, Germany [Ley, Andreas](#), Technische Universität Berlin, Germany [D'Hondt, Olivier](#), Technische Universität Berlin, Germany [Valade, Sébastien](#), German Research Centre for Geosciences (GFZ), Germany [Hellwich, Olaf](#), Technische Universität Berlin, Germany

FR1.R7.6: PREDICTION OF SORGHUM BIOMASS USING TIME SERIES UAV-BASED HYPERSPECTRAL AND LIDAR DATA

[Masjedi, Ali](#), Purdue University, United States [Crawford, Melba](#), Purdue University, United States

FR1.R7.7: BUILDING INSTANCE SEGMENTATION AND BOUNDARY REGULARIZATION FROM HIGH-RESOLUTION REMOTE SENSING IMAGES

[Zhao, Wufan](#), University of Twente, Netherlands [Persello, Claudio](#), University of Twente, Netherlands [Stein, Alfred](#), University of Twente, Netherlands

FR1.R7.8: ROAD NETWORK AND TRAVEL TIME EXTRACTION FROM MULTIPLE LOOK ANGLES WITH SPACENET DATA

[Van Etten, Adam](#), In-Q-Tel CosmiQ Works, United States [Shermeyer, Jacob](#), In-Q-Tel CosmiQ Works, United States [Hogan, Daniel](#), In-Q-Tel CosmiQ Works, United States [Weir, Nicholas](#), In-Q-Tel CosmiQ Works, United States [Lewis, Ryan](#), In-Q-Tel CosmiQ Works, United States

FR1.R8 - Ocean Biology, Temperature and Salinity, Altimetry and Coastal Zone Friday, October 2, 05:00 - 07:00 • Room 8

FR1.R8.1: EVALUATION OF HY-2B ALTIMETER PRODUCTS OVER OCEAN

[Jiang, Maofei](#), National Space Science Center, Chinese Academy of Sciences, China [Xu, Ke](#), National Space Science Center, Chinese Academy of Sciences, China [Jia, Yongjun](#), National Satellite Ocean Application Service, China [Fan, Chengqing](#), First Institute of Oceanography, Ministry of Natural Resources, China [Xu, Xiyu](#), National Space Science Center, Chinese Academy of Sciences, China

FR1.R8.2: DEVELOPMENT AND INTEGRATION TEST OF AN IMPROVED TRANSPONDER FOR HY-2B ALTIMETER

[Wang, Caiyun](#), National Space Science Center, Chinese Academy of Sciences, China [Guo, Wei](#), National Space Science Center, Chinese Academy of Sciences, China [Liu, Peng](#), National Space Science Center, Chinese Academy of Sciences, China [Wang, Te](#), National Space Science Center, Chinese Academy of Sciences, China

FR1.R8.3: GRAVITY ANOMALY AND ITS ACCURACY ASSESSMENT FROM HY-2A/GM ALTIMETRY DATA IN THE SOUTH CHINA SEA

[Liu, Qiankun](#), University of Chinese Academy of Sciences; National Space Science Center, Chinese Academy of Sciences, China [Xu, Ke](#), National Space Science Center, Chinese Academy of Sciences, China [Jiang, Maofei](#), National Space Science Center, Chinese Academy of Sciences, China [Wang, Jiaming](#), University of Chinese Academy of Sciences; National Space Science Center, Chinese Academy of Sciences, China

FR1.R8.4: MOBILE AND AIRBORNE LIDAR SCANNING OF BEACH ELEVATION CHANGE DUE TO HURRICANE HARVEY

[Garcia, Isabel](#), Texas A&M University-Corpus Christi, United States [Starek, Michael J.](#), Texas A&M University-Corpus Christi, United States [Chu, Tianxing](#), Texas A&M University-Corpus Christi, United States

FR1.R8.5: FEASIBILITY ANALYSIS AND SUITABLE ANTENNA DIRECTIONS OF IGNSS-R ALTIMETRY MEASUREMENT FOR AVOIDING THE INTERSATELLITE INTERFERENCE

[Sun, Yixuan](#), Beihang University, China [Yang, Dongkai](#), Beihang University, China [Xia, Junming](#), Chinese Academy of Center, China [Du, Yi](#), Beihang University, China [Yin, Cong](#), Chinese Academy of Center, China

FR1.R8.6: COMPARISON OF QUASI-ANALYTICAL ALGORITHMS BASED ON IOCCG DATA

[Zhan, Jie](#), School of Marine Science and Technology, Tianjin University, China [Zhang, Dianjun](#), School of Marine Science and Technology, Tianjin University, China [Zhang, Guangyun](#), School of Geomatics Science and Technology, Nanjing Tech University, China [Wang, Chenxu](#), School of Geomatics Science and Technology, Nanjing Tech University, China

FR1.R8.7: OCEAN COLOR NET (OCN) FOR THE BARENTS SEA

[Asim, Muhammad](#), UiT The Arctic University of Norway, Norway [Brekke, Camilla](#), UiT The Arctic University of Norway, Norway [Mahmood, Arif](#), Information Technology University, Lahore, Pakistan [Eltoft, Torbjørn](#), UiT The Arctic University of Norway, Norway [Reigstad, Marit](#), UiT The Arctic University of Norway, Norway

FR1.R8.8: VALIDATION OF SEA SURFACE TEMPERATURE FROM FY-3C VIRR

[Li, Ninghui](#), Ocean University of China, China [Guan, Lei](#), Ocean University of China, China [Qu, Liqin](#), Ocean University of China, China

FR1.R8.9: NUMERICAL SIMULATION OF PLANKTON DYNAMICS AND ITS SENSITIVITY TO SEASONAL VARIATIONS IN FRESHWATER FORCING

[Deb, Saswati](#), Fisheries and Oceans Canada, Gulf Fisheries Centre, Canada [Das, Bhaskar](#), Université de Moncton, Canada

FR1.R8.10: LAND AND SEA ICE MASK OPTIMIZATION FOR SCANNING MICROWAVE RADIOMETER OF HY-2B SATELLITE

[Wang, Shishuai](#), Piesat Information Technology Co., Ltd., China [Li, Yan](#), Piesat Information Technology Co., Ltd., China [Yin, Xiaobin](#), Piesat Information Technology Co., Ltd., China [Zhou, Wu](#), National Satellite Ocean Application Service, China [Jin, Xu](#), China Academy of Space Technology, China [Lv, Xiaofeng](#), Beijing Piesat Information Technology Co. Ltd, China

FR1.R8.11: EVALUATION OF SEA SURFACE TEMPERATURE FROM HY-1C DATA

[Wang, Hongyan](#), National Satellite Ocean Application Service, China [Lin, Mingsen](#), National Satellite Ocean Application Service, China [Ma, Chaofei](#), National Satellite Ocean Application Service, China [Yin, Xiaobin](#), Beijing Piesat Information Technology Co. Ltd, China [Guan, Lei](#), Ocean University of China, China

FR1.R8.12: ESTIMATION OF COLORED DISSOLVED ORGANIC MATTER FROM SATELLITE DATA

[Liew, Soo Chin](#), National University of Singapore, Singapore [Wong, Joel](#), National University of Singapore, Singapore [Wong, Elizabeth](#), National University of Singapore, Singapore

FR1.R9 - Processing and Imaging Techniques IV

Friday, October 2, 05:00 - 07:00 • Room 9

FR1.R9.1: BI-DIRECTIONAL PROCESSING ALGORITHM WITH RPM AND WKD BASED DOPPLER VELOCITY ESTIMATOR FOR 3-D DOPPLER-RADAR IMAGING

[Hayashi, Takumi](#), University of Electro-Communications, Japan [Kidera, Shouhei](#), University of Electro-Communications, Japan

FR1.R9.2: SHIP POSITIONING AND RADIAL VELOCITY ESTIMATION FOR SPACEBORNE SAR BASED ON ENERGY CENTER EXTRACTION

[You, Dong](#), Xidian University, China [Sun, Guang-Cai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Li, Yachao](#), Xidian University, China

**FR1.R9.3: SHIP CLASSIFICATION IN SAR IMAGES VIA SUPER-RESOLUTION
GENERATIVE ADVERSARIAL NETWORK WITH SMALL TRAINING DATASET**

[ChangChong, Lu](#), University of Science and Technology of China, China [Weihai, Li](#), University of Science and Technology of China, China

**FR1.R9.4: AN OPTIMIZATION ALGORITHM OF MOVING TARGETS REFOCUSING VIA
PARAMETER ESTIMATION DEPENDENCE OF MAXIMUM SHARPNESS PRINCIPLE
AFTER BP INTEGRAL**

[Tong, Xuyao](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Sun, Guang-Cai](#), Xidian University, China

**FR1.R9.5: A NOVEL SAR IMAGE DOMAIN-GROUND MOVING TARGET IMAGING
METHOD**

[Chen, Zhanye](#), Chongqing University, China [Huang, Yan](#), Southeast University, China [Wan, Jun](#), Chongqing University, China [Li, Dong](#), Chongqing University, China [Li, Li](#), Chongqing University, China [Zeng, Zhiqiang](#), Chongqing University, China [Zhou, Shuwei](#), Chongqing University, China

**FR1.R9.6: CLUTTER SUPPRESSION AND MOVING TARGET RADIAL VELOCITY
ESTIMATION METHOD FOR HRWS MULTICHANNEL SYSTEM BASED ON SUBSPACE
PROJECTION**

[Li, Boyu](#), Xidian University, China [Sun, Guang-Cai](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China

**FR1.R9.7: A SIDELobe REDUCTION ALGORITHM FOR SAR IMAGERY FORMED BY
FAST BACK PROJECTION ALGORITHM BASED ON SPECTRUM COMPRESSION**

[Chen, Xiaoxiang](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China [Wan, Minghui](#), Xidian University, China [Sun, Guangcai](#), Xidian University, China

**FR1.R9.8: METHOD FOR ELIMINATING SPURIOUS SIGNAL FROM DERAMPED SAR
RAW DATA**

[Lim, Byoung-Gyun](#), Korea Aerospace Research Institute, Korea (South)

**FR1.R9.9: A FAST 3-D IMAGING METHOD FOR CIRCULAR SAR BASED ON 3-D BACK-
PROJECTION ALGORITHM**

[Han, Dong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Zhou, Liangjiang](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Jiao, Zekun](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Song, Chen](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wu, Yirong](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

**FR1.R9.10: LINEAR ARRAY 3-D SAR SPARSE IMAGING VIA CONVOLUTIONAL NEURAL
NETWORK**

[Wang, Mou](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Wu, Yue](#), University of Electronic Science and Technology of China, China [Liang, Jiadian](#), University of Electronic Science and Technology of China, China [Qu, Qizhe](#), University of Electronic Science and Technology of China, China

**FR1.R9.11: SYNTHETIC APERTURE RADAR FOCUSING BASED ON BACK-PROJECTION
AND COMPRESSIVE SENSING**

[Focsa, Adrian](#), Military Technical Academy "Ferdinand I", Bucharest, Romania, Romania [Anghel, Andrei](#), Research Center for Spatial Information- CEOSpaceTech - University Politehnica of Bucharest, Romania [Toma, Ștefan-Adrian](#), Military Technical Academy "Ferdinand I", Bucharest, Romania, Romania [Datcu, Mihai](#), German Aerospace Center (DLR), Romania

**FR1.R9.12: TWO-STEP BISTATIC SPACEBORNE SLIDING-SPOTLIGHT SAR IMAGING
AGORITHM BASED ON ACCURATE RANGE MODEL**

[Xiang, Jianbing](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Lv, Xiaolei](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Fu, Xikai](#), Aerospace Information Research Institute, Chinese Academy of Sciences,

China [Yun, Ye](#), Aerospace Information Research Institute, Chinese Academy of Sciences,

China

FR1.R10 - Topography, Geology and Geomorphology I Friday, October 2, 05:00 - 07:00 • Room 10

[FR1.R10.1: DEVELOPMENT OF LOW-COST GROUND CONTROL SYSTEM FOR UAV-BASED MAPPING](#)

[Rodriguez, Jorge](#), Universidad Nacional de Colombia, Colombia [Angulo, Victor](#), Universidad Distrital Francisco Jose de Caldas, Colombia [Gaona, Elvis](#), Universidad Distrital Francisco Jose de Caldas, Colombia [Lizarazo, Ivan](#), Universidad Nacional de Colombia, Colombia

[FR1.R10.2: USING UNSUPERVISED CLUSTERING FOR ANALYZING AIRBORNE GAMMA-RAY SPECTROMETRY DATA](#)

[Derkacz Weihermann, Jessica](#), Federal University of Paraná, Brazil [Pinheiro Ferreira, Matheus](#), Military Institute of Engineering, Brazil [Fonseca Ferreira, Francisco José](#), Federal University of Paraná, Brazil [Moreira Silva, Adalene](#), University of Brasília, Brazil

[FR1.R10.3: BIOGEOCHEMICAL EXPLORATION OF GOLD MINERALIZATION AND ITS PATHFINDER ELEMENTS USING HYPERSPECTRAL REMOTE SENSING](#)

[Chakraborty, Rupsa](#), Massey University, New Zealand [Kereszturi, Gabor](#), Massey University, New Zealand [Durance, Patricia](#), BHP Billiton, Australia [Pullanagari, Reddy](#), Massey University, New Zealand [Ashraf, Salman](#), GNS Science, New Zealand [Anderson, Chris](#), Massey University, New Zealand

[FR1.R10.4: AN IMPROVED PROGRESSIVE TIN DENSIFICATION ALGORITHM FOR LIDAR DATA FILTERING BASED ON SEGMENTATION AND TERRAIN-ADAPTIVE PARAMETERS](#)

[Yang, Kai](#), University of Electronic Science and Technology of China, China [Wang, Yong](#), East Carolina University, United States

[FR1.R10.5: FAULT DISPLACEMENT DETECTION CAUSED BY LARGE EARTHQUAKE USING EXTENDED DEEPMATCHING](#)

[Kumon, Yuki](#), University of Tokyo, Japan [Iwasaki, Akira](#), University of Tokyo, Japan

[FR1.R10.6: RE-EVALUATING BASALTIC DEPOSITS IN MARE NUBIUM WITH CE-2 CELMS DATA](#)

[Meng, Zhiguo](#), Jilin University, China [Dong, Mengna](#), Jilin University, China [Yang, Changbao](#), Jilin University, China [Cai, Zhanchuan](#), Macau University of Science and Technology, China [Wang, Yongzhi](#), Jilin University, China [Shi, Yanxiang](#), Jilin University, China [Hu, Shuo](#), Jilin University, China

[FR1.R10.7: LWIR HYPERSPECTRAL MAPPING OF THE GAMSBERG DEPOSIT, AGGENEYS, SOUTH AFRICA](#)

[Schodlok, Martin C.](#), Federal Institute for Geosciences and Natural Resources (BGR), Germany [Frei, Michaela](#), Federal Institute for Geosciences and Natural Resources (BGR), Germany

[FR1.R10.8: DETECTION OF PRE-FAILURE DEFORMATION OF THE 2017 MAOXIAN LANDSLIDE WITH TIME-SERIES INSAR AND MULTI-TEMPORAL OPTICAL DATASETS](#)

[Kuang, Jianming](#), University of New South Wales, Australia [Ge, Linlin](#), University of New South Wales, Australia [Ng, Alex Hay-Man](#), Guangdong University of Technology, China [Du, Zheyuan](#), University of New South Wales, Australia [Zhang, Qi](#), University of New South Wales, Australia

[FR1.R10.9: RESOLVING GROUNDWATER CONDUITS IN HYPER-ARID ERODED KARSTS USING HIGH-RESOLUTION L-BAND SAR AND OPTICAL IMAGES](#)

[Normand, Jonathan C.L.](#), University of Southern California, United States [Heggy, Essam](#), University of Southern California, United States

[FR1.R10.10: IMPLEMENTING NEW FEATURE EXTRACTION TECHNIQUES FOR CHARACTERIZATION OF COMPLEX MINERAL SIGNATURES OF SALTY REGIONS ON MARS](#)

[Bishop, Janice](#), SETI Institute, United States [Parente, Mario](#), University of Massachusetts at Amherst, United States [Saranathan, Arun](#), University of Massachusetts at Amherst, United States [Itoh, Yuki](#), University of Massachusetts at Amherst, United States [Weitz, Catherine](#), Planetary Science Institute, United States [Flahaut, Jessica](#), CRPG CNRS Nancy, France [Gross,](#)

[Christoph](#), Freie Universität Berlin, Germany [Danielsen, Jacob](#), SETI Institute, United States
[Usabal, Gabriela](#), Brown University, United States [Miura, Jasper](#), Brown University, United States

[FR1.R10.11: DETECTING RECENT LANDSLIDE ACTIVITIES IN YIGONG AND SURROUNDING AREAS IN EASTERN TIBET OF CHINA BASED ON GF-3 SAR AMPLITUDE IMAGERY](#)

[Jia, Weijie](#), China Academy of Sciences, China [Wang, Mengfei](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China [Jiang, Decai](#), China Aero Geophysical Survey and Remote Sensing Center for Natural Resources, China

[FR1.R10.12: QUALITY ASSESSMENT OF THREE DIGITAL ELEVATION MODELS WITH 30 M RESOLUTION BY TAKING 12 M TANDEM-X DEM AS REFERENCE](#)

[Han, Haijiao](#), Peking University, China [Zeng, Qiming](#), Peking University, China [Jiao, Jian](#), Peking University, China

FR1.R11 - Remote Sensing for Crop Parameters II Friday, October 2, 05:00 - 07:00 • Room 11

[FR1.R11.1: ASSESSING CROP PRODUCTIVITY IN DECONTAMINATED FARMLAND IN FUKUSHIMA USING MICRO-SATELLITE VENMS AND HYPERSPECTRAL SENSING](#)

[Inoue, Yoshio](#), University of Tokyo, Japan [Dedieu, Gerard](#), Centre d'Etudes Spatiales de la Biosphère, CESBIO, France [Yoshida, Naofumi](#), Fukushima Agricultural Technology Center, Japan [Saito, Takashi](#), Fukushima Agricultural Technology Center, Japan [Iwasaki, Akira](#), University of Tokyo, Japan [Sakaiya, Eiji](#), Aomori Prefectural Industrial Technology Center, Japan

[FR1.R11.2: CROP YIELD ESTIMATION USING MULTI-SOURCE SATELLITE IMAGE SERIES AND DEEP LEARNING](#)

[Ghazaryan, Gohar](#), University of Bonn, Germany [Skakun, Sergii](#), University of Maryland, United States [König, Simon](#), University of Bonn, Germany [Eyshi Rezaei, Ehsan](#), University of Göttingen, Germany [Siebert, Stefan](#), University of Göttingen, Germany [Dubovyk, Olena](#), University of Bonn, Germany

[FR1.R11.3: A SATELLITE-BASED METHODOLOGY FOR HARVEST DATE DETECTION AND YIELD PREDICTION IN SUGARCANE](#)

[Shendryk, Yuri](#), CSIRO, Australia [Pan, Lecheng](#), CSIRO, Australia [Craigie, Matthew](#), CSIRO, Australia [Stasolla, Mattia](#), Royal Military Academy, Belgium [Ticehurst, Catherine](#), CSIRO, Australia [Thorburn, Peter](#), CSIRO, Australia

[FR1.R11.4: PADDY FIELD MAPPING IN EASTERN PART OF ASIA USING SENTINEL-1 AND SENTINEL-2](#)

[Inoue, Shimpei](#), National Institute for Environmental Studies, Japan [Ito, Akihiko](#), National Institute for Environmental Studies, Japan [Yonezawa, Chinatsu](#), Tohoku University, Japan

[FR1.R11.5: CROP EVAPOTRANSPIRATION ESTIMATES FOR SUGARCANE BASED ON REMOTE SENSING AND LAND SURFACE MODEL IN THAILAND](#)

[Das, Kamal](#), IBM Research India, India [Khripet, Noppadon](#), National Science and Technology Development Agency (NSTDA), Thailand [Chattanrassamee, Panyawat](#), Mitr-Phol, Thailand, Thailand [Kijkullert, Chalerm](#), Mitr-Phol, Thailand, Thailand [Veerachit, Vorraveerukorn](#), Mitr-Phol, Thailand, Thailand

[FR1.R11.6: LANDSAT-BASED RECONSTRUCTION OF CORN AND SOYBEAN YIELD HISTORIES IN THE UNITED STATES SINCE 1999](#)

[Lobell, David](#), Stanford University, United States [Dado, Walter](#), Stanford University, United States [Deines, Jillian](#), Stanford University, United States [di Tommaso, Stefania](#), Stanford University, United States [Wang, Sherrie](#), Stanford University, United States

[FR1.R11.7: USING NDVI TIME SERIES CURVE CHANGE RATE TO ESTIMATE WINTER WHEAT YIELD](#)

[Ji, Zhonglin](#), Beijing Normal University, China [Pan, Yaoyong](#), Beijing Normal University, China [Li, Muyi](#), Beijing Normal University, China

[FR1.R11.8: ASSESSING THE EFFECTS OF NUTRIENT STRESS ON THE RED TO FAR-RED RATIOS OF LIGHT TRANSMITTED BY UNIFACIAL PLANT LEAVES](#)

[Baranoski, Gladimir](#), University of Waterloo, Canada

FR1.R11.9: EXPLOITING THE TEXTURAL INDICES OF UAV MULTISPECTRAL IMAGERY TO PREDICT RICE GRAIN YIELD

[Zheng, Hengbiao](#), Nanjing Agricultural University, China [Zhu, Yan](#), Nanjing Agricultural University, China [Cheng, Tao](#), Nanjing Agricultural University, China

FR1.R11.10: ESTIMATION OF LEAF ANGLE DISTRIBUTION BASED ON STATISTICAL PROPERTIES OF LEAF SHADING DISTRIBUTION

[Uto, Kuniaki](#), Tokyo Institute of Technology, Japan [Dalla Mura, Mauro](#), Univ. Grenoble Alpes, France [Sasaki, Yuka](#), Yamagata University, Japan [Shinoda, Koichi](#), Tokyo Institute of Technology, Japan

FR1.R11.11: COMBINING UAS AND SENTINEL-2 DATA TO ESTIMATE CANOPY PARAMETERS OF A COTTON CROP USING MACHINE LEARNING

[Ashapure, Akash](#), Purdue University, United States [Jung, Jinha](#), Purdue University, United States [Oh, Sungchan](#), Purdue University, United States [Chang, Anjin](#), Texas A&M University Corpus Christi, United States [Dube, Nothabo](#), Texas A&M AgriLife Research at Corpus Christi, United States [Landivar, Juan](#), Texas A&M AgriLife Research at Corpus Christi, United States

FR1.R12 - Unmixing and Anomaly Detection

Friday, October 2, 05:00 - 07:00 • Room 12

FR1.R12.1: CAUCHY NMF FOR HYPERSPECTRAL UNMIXING

[Peng, Jiangtao](#), Hubei University, China [Jiang, Fan](#), Hubei University, China [Sun, Weiwei](#), Ningbo University, China [Zhou, Yicong](#), University of Macau, China

FR1.R12.2: SEMI-AUTOMATIC FULLY SPARSE SEMANTIC MODELING FRAMEWORK FOR HYPERSPECTRAL UNMIXING

[Wang, Linlin](#), China University of Geosciences, China [Zhu, Qiqi](#), China University of Geosciences, China [Zeng, Wen](#), China University of Geosciences, China [Zhong, Yanfei](#), Wuhan University, China [Guan, Qingfeng](#), China University of Geosciences, China [Zhang, Liangpei](#), Wuhan University, China [Li, Deren](#), Wuhan University, China

FR1.R12.3: SUPERPIXEL-BASED SPATIAL CONSTRAINTS SPARSE UNMIXING FOR HYPERSPECTRAL REMOTE SENSING IMAGERY

[Li, Hao](#), China University of Geosciences (Wuhan), China [Feng, Ruyi](#), China University of Geosciences (Wuhan), China [Wang, Lizhe](#), China University of Geosciences (Wuhan), China [Zhong, Yanfei](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

FR1.R12.4: SPATIAL-SPECTRAL AUTOENCODER NETWORKS FOR HYPERSPECTRAL UNMIXING

[Huang, Yongfa](#), Xidian University, China [Li, Jie](#), Xidian University, China [Qi, Lin](#), Xidian University, China [Wang, Ying](#), Xidian University, China [Gao, Xinbo](#), Xidian University, China

FR1.R12.5: SEMI-SUPERVISED HYPERSPECTRAL UNMIXING WITH VERY DEEP CONVOLUTIONAL NEURAL NETWORKS

[Bai, Jiayu](#), China University of Geosciences, China [Feng, Ruyi](#), China University of Geosciences, China [Wang, Lizhe](#), China University of Geosciences, China [Li, Hao](#), China University of Geosciences, China [Li, Fengpeng](#), China University of Geosciences, China [Zhong, Yanfei](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

FR1.R12.6: HYPERSPECTRAL NONLINEAR UNMIXING VIA GENERATIVE ADVERSARIAL NETWORK

[Tang, Maofeng](#), University of Tennessee, United States [Qu, Ying](#), University of Tennessee, United States [Qi, Hairong](#), University of Tennessee, United States

FR1.R12.7: IMPROVING THE CLASSIFICATION IN SHADOWED AREAS USING NONLINEAR SPECTRAL UNMIXING

[Zhang, Guichen](#), German Aerospace Center, Germany [Cerra, Daniele](#), German Aerospace Center, Germany [Mueller, Rupert](#), German Aerospace Center, Germany

FR1.R12.8: A BACKGROUND REFINEMENT COLLABORATIVE REPRESENTATION METHOD WITH SALIENCY WEIGHT FOR HYPERSPECTRAL ANOMALY DETECTION

[Hou, Zengfu](#), Beijing Institute of Technology, China [Li, Wei](#), Beijing Institute of Technology, China [Gao, Lianru](#), Chinese Academy of Sciences, China [Zhang, Bing](#), Chinese Academy of Sciences, China [Ma, Pengge](#), Zhengzhou University of Aeronautics, China [Sun, Junling](#), Zhengzhou University of Aeronautics, China

[FR1.R12.9: HYPERSPECTRAL ANOMALY DETECTION BASED ON ISOLATION FOREST WITH BAND CLUSTERING](#)

[Huang, Yuancheng](#), Xi'an University of Science and Technology, China [Xue, Yuanyuan](#), Xi'an University of Science and Technology, China [Su, Yuanchao](#), Xi'an University of Science and Technology, China [Han, Shanshan](#), Xi'an University of Science and Technology, China

[FR1.R12.10: DISCRIMINATIVE SEMI-SUPERVISED GENERATIVE ADVERSARIAL NETWORK FOR HYPERSPECTRAL ANOMALY DETECTION](#)

[Jiang, Tao](#), Xidian University, China [Xie, Weiying](#), Xidian University, China [Li, Yunsong](#), Xidian University, China [Du, Qian](#), Mississippi State University, United States

[FR1.R12.11: JOINT SPARSE REPRESENTATION AND MULTITASK LEARNING FOR HYPERSPECTRAL ANOMALY DETECTION](#)

[Zhang, Yuxiang](#), Institute of Geophysics and Geomatics, China University of Geosciences, China [He, Kai](#), Institute of Geophysics and Geomatics, China University of Geosciences, China [Dong, Yanni](#), Institute of Geophysics and Geomatics, China University of Geosciences, China [Wu, Ke](#), Institute of Geophysics and Geomatics, China University of Geosciences, China [Chen, Tao](#), Institute of Geophysics and Geomatics, China University of Geosciences, China

FR1.R13 - Microwave Radiometer Calibration and RFI II

Friday, October 2, 05:00 - 07:00 • Room 13

[FR1.R13.1: REMOTE SENSING AND PROPOSED FEDERAL SPECTRUM ACTIONS: WILL PASSIVE MICROWAVE REMOTE SENSING BE AFFECTED?](#)

[Kunkee, David](#), The Aerospace Corporation, United States [Lubar, David](#), The Aerospace Corporation, United States

[FR1.R13.2: ARTIFACT-FREE RFI LOCALIZATION BASED ON SPATIAL SMOOTHING MUSIC IN SYNTHETIC APERTURE INTERFEROMETRIC RADIOMETERS](#)

[Zheng, Tao](#), Huazhong University of Science and Technology, China [Hu, Fei](#), Huazhong University of Science and Technology, China [Hu, Hao](#), Huazhong University of Science and Technology, China [Fu, Peng](#), Huazhong University of Science and Technology, China

[FR1.R13.3: LOCATION OF SMOS RFI SOURCES USING A MATRIX COMPLETION APPROACH](#)

[Zhu, Dong](#), Tsinghua University, China [Li, Gang](#), Tsinghua University, China

[FR1.R13.4: CHARACTERIZING SYSTEMATIC ERRORS IN THE FARADAY ROTATION RETRIEVAL FROM SMOS MEASUREMENTS](#)

[Rubino, Roselena](#), Universitat Politècnica de Catalunya (UPC), Spain [Duffo, Nuria](#), Universitat Politècnica de Catalunya (UPC), Spain [González-Gambau, Verónica](#), Barcelona Expert Center, Spain [Torres, Francesc](#), Universitat Politècnica de Catalunya (UPC), Spain [Corbella, Ignasi](#), Universitat Politècnica de Catalunya (UPC), Spain [Martín-Neira, Manuel](#), European Space Agency, Spain

[FR1.R13.5: P-BAND RADIOMETRY: RFI AND CALIBRATION FOR UWBRAD](#)

[Andrews, Mark](#), Ohio State University, United States [Johnson, Joel](#), Ohio State University, United States [Jezek, Ken](#), Ohio State University, United States [Bringer, Alexandra](#), Ohio State University, United States [Brogioni, Marco](#), CNR IFAC, Italy [Macelloni, Giovanni](#), CNR IFAC, Italy [Leduc-Leballeur, Marion](#), CNR IFAC, Italy

[FR1.R13.6: ERROR ESTIMATION OF THE MEASURED TIME DELAY USING WIDEBAND AUTOCORRELATION RADIOMETRY](#)

[Mousavi, Seyedmohammad](#), University of Michigan, United States [De Roo, Roger](#), University of Michigan, United States [Sarabandi, Kamal](#), University of Michigan, United States [England, Anthony](#), University of Michigan, United States

[FR1.R13.7: PRE-LAUNCH CALIBRATION OF THE NASA TROPICS CONSTELLATION MISSION](#)

[Leslie, R. Vincent](#), MIT Lincoln Laboratory, United States [Blackwell, William J.](#), MIT Lincoln

Laboratory, United States [Cunningham, Andrew](#), MIT Lincoln Laboratory, United States [DiLiberto, Michael](#), MIT Lincoln Laboratory, United States [Eshbaugh, James](#), MIT Lincoln Laboratory, United States [Osaretin, Idahosa](#), MIT Lincoln Laboratory, United States

[FR1.R13.8: CALIBRATION OF THE SMAP RADIOMETER FOR OCEAN APPLICATIONS](#)

[Meissner, Thomas](#), Remote Sensing Systems, United States [Wentz, Frank](#), Remote Sensing Systems, United States

[FR1.R13.9: ON STUDY OF ERROR SOURCES IN MICROWAVE THERMAL VACUUM NON-LINEARITY TEST AND ON-ORBIT VERIFICATION](#)

[Yang, Hu](#), University of Maryland, United States [Sun, Ninghai](#), NOAA/NESDIS/STAR, United States [Liu, Quanhua](#), NOAA/NESDIS/STAR, United States [Leslie, R. Vincent](#), MITLL, United States [Kim, Edward](#), NASA Goddard Space Flight Center, United States [Liu, Cheng-Hsuan](#), NASA/GESTAR, United States [Sammons, Matthew](#), NASA/Fibertek, United States [Feuntes, James](#), Northrop Grumman, United States

[FR1.R13.10: TEST AND ANALYSIS OF A HYPERSPECTRAL MICROWAVE RADIOMETER INTERMEDIATE FREQUENCY MODULE](#)

[Gong, Xun](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China [Gao, Bo](#), University of Electronic Science and Technology of China, China [Wang, Peicheng](#), University of Electronic Science and Technology of China, China [Gao, Xinyi](#), University of Electronic Science and Technology of China, China [Liu, Yukai](#), University of Electronic Science and Technology of China, China [Wang, Jiakun](#), Xian Institute of Space Radio Technology, China [Li, Hao](#), Xian Institute of Space Radio Technology, China [Lv, Rongchuan](#), Xian Institute of Space Radio Technology, China [Li, Yinan](#), Xian Institute of Space Radio Technology, China [He, Zheng](#), Xian Institute of Space Radio Technology, China

[FR1.R13.11: MONITORING IN THE RFI ENVIRONMENT USING SMAP DATA FROM 2015-2020](#)

[Bringer, Alexandra](#), The Ohio State University, United States [Daehn, Matt](#), The Ohio State University, United States [Johnson, Joel](#), The Ohio State University, United States [Soldo, Yan](#), NASA Goddard Space Flight Center, United States [Le Vine, David](#), NASA Goddard Space Flight Center, United States

FR1.R14 - Target Detection and Localization

Friday, October 2, 05:00 - 07:00 • Room 14

[FR1.R14.1: WEIGHTED HIERARCHICAL SPARSE REPRESENTATION FOR HYPERSPECTRAL TARGET DETECTION](#)

[Wei, Chenlu](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China [Jiang, Zhiyu](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China [Yuan, Yuan](#), School of Computer Science and Center for OPTical IMagery Analysis and Learning (OPTIMAL), Northwestern Polytechnical University, China

[FR1.R14.2: A FAST LOW RANK APPROXIMATION AND SPARSITY REPRESENTATION APPROACH TO HYPERSPECTRAL ANOMALY DETECTION](#)

[Chen, Jie](#), UNIVERSITY OF MARYLAND, Baltimore County, United States [Cao, Hongju](#), Dalian Maritime University, China [Chen, Shuhan](#), Zhejiang University, China [Chang, Chein-I](#), UNIVERSITY OF MARYLAND, Baltimore County, United States

[FR1.R14.3: HYPERSPECTRAL TARGET DETECTION VIA MULTIPLE INSTANCE LSTM TARGET LOCALIZATION NETWORK](#)

[Chen, Xiaoying](#), Xidian University, China [Wang, Xiuxiu](#), Xidian University, China [Guo, Chubing](#), CETC Key Laboratory of Data Link Technology, China [Chen, Chao](#), IBM Research, United States [Gou, Shuiping](#), Xidian University, China [Yu, Tao](#), Laboratory of Spectral Imaging Technique, Xi'an Institute of Optics and Precision, Chinese Academy Sciences; CAS Key Laboratory of Spectral Imaging Technology, China [Jiao, Changzhe](#), Xidian University, China

[FR1.R14.4: HUMAN DETECTION WITH RANGE-DOPPLER SIGNATURES USING 3D CONVOLUTIONAL NEURAL NETWORKS](#)

[Kim, Youngwook](#), California State University, Fresno, United States [Alnujaim, Ibrahim](#), California State University, Fresno, United States [You, Sungjin](#), Electronics and Telecommunications Research Institute, Korea (South) [Jeong, Byung Jang](#), Electronics and Telecommunications Research Institute, Korea (South)

[FR1.R14.5: SIMPLE, FAST, ACCURATE OBJECT DETECTION BASED ON ANCHOR-FREE METHOD FOR HIGH RESOLUTION REMOTE SENSING IMAGES](#)

[Liu, Yijian](#), Beijing University of Posts and Telecommunications, China [Yang, Junli](#), Beijing University of Posts and Telecommunications, China [Cui, Wenqian](#), Beijing University of Posts and Telecommunications, China

[FR1.R14.6: IMPACT ANALYSIS OF RADIO FREQUENCY INTERFERENCE ON SAR IMAGE SHIP DETECTION BASED ON DEEP LEARNING](#)

[Shao, Puyang](#), Inner Mongolia University of Technology, China [Lu, Xiaoqi](#), Inner Mongolia University of Technology, China [Huang, Pingping](#), Inner Mongolia University of Technology, China [Xu, Wei](#), Inner Mongolia University of Technology, China [Dong, Yifan](#), Inner Mongolia University of Technology, China

[FR1.R14.7: OBJECT DETECTION FOR REMOTE SENSING IMAGE BASED ON DEEP LEARNING](#)

[Zheng, Yongxiang](#), Beijing University of Posts and Telecommunications, China [Ha, Rui](#), Beijing University of Posts and Telecommunications, China

[FR1.R14.8: TOWARDS AUTOMATIC DETECTION OF DARK FEATURES IN THE BARENTS SEA USING SYNTHETIC APERTURE RADAR](#)

[Cristea, Anca](#), UiT The Arctic University of Norway, Norway [Johansson, A. Malin](#), UiT The Arctic University of Norway, Norway [Filimonova, Natalya A.](#), SCANEX Group, Operational monitoring department, Russia [Ivonin, Dmitry](#), Shirshov Institute of Oceanology RAS, Russia [Hughes, Nicholas E.](#), Norwegian Meteorological Institute, Norway [Doulgeris, Anthony P.](#), UiT The Arctic University of Norway, Norway [Brekke, Camilla](#), UiT The Arctic University of Norway, Norway

[FR1.R14.9: SYNTHETIC MINORITY CLASS DATA BY GENERATIVE ADVERSARIAL NETWORK FOR IMBALANCED SAR TARGET RECOGNITION](#)

[Luo, Zhongming](#), Shanghai Jiao Tong University, China [Jiang, Xue](#), Shanghai Jiao Tong University, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China

[FR1.R14.10: MULTI-SCALE REMOTE SENSING TARGETS DETECTION WITH ROTATED FEATURE PYRAMID](#)

[Mao, Yanan](#), Beihang University, China [Chen, Ziqiang](#), Beihang University, China [Dou, Hongkun](#), Beihang University, China [Zhao, Danpei](#), Beihang University, China [Liu, Ziming](#), Beihang University, China

[FR1.R14.11: HARBOR DETECTION IN SAR IMAGES BASED ON MULTIDIRECTIONAL ONE-DIMENSIONAL SCANNING](#)

[Wang, Rufe](#), University of Electronic Science and Technology of China, China [Xu, Fanyun](#), University of Electronic Science and Technology of China, China [Zhang, Qian](#), University of Electronic Science and Technology of China, China [Pei, Jifang](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

FR1.R15 - UAV and Airborne Platforms Applications II

Friday, October 2, 05:00 - 07:00 • Room 15

[FR1.R15.1: DETECTION OF SEASONAL ARCTIC TERRAIN CHANGE USING A SMALL UNMANNED AIRCRAFT SYSTEM \(SUAS\) ON THE ALASKAN NORTH SLOPE](#)

[O'Banion, Matthew](#), United States Military Academy - West Point, United States [Oxendine, Christopher](#), United States Military Academy - West Point, United States [Eck, Riley](#), United States Military Academy - West Point, United States [Mcgettigan, Seamus](#), United States Military Academy - West Point, United States [Wright, William](#), United States Military Academy - West Point, United States [Gallaher, Shawn](#), United States Naval Academy, United States [Smith, Joseph](#), United States Naval Academy, United States [Douglas, Thomas](#), United States Army Corps of Engineers, United States

FR1.R15.2: CONDITIONS OF AERIAL PHOTOGRAPHY TO REDUCE DOMING EFFECT

[Obanawa, Hiroyuki](#), National Agriculture and Food Research Organization, Japan [Sakanoue, Seichi](#), National Agriculture and Food Research Organization, Japan

FR1.R15.3: DETECT GEOGRAPHICAL LOCATION BY MULTI-VIEW SCENE MATCHING

[Liu, Chen](#), Northwestern Polytechnical University, China [Yuan, Yuan](#), Northwestern Polytechnical University, China [Liu, Ganchao](#), Northwestern Polytechnical University, China

FR1.R15.4: KALMAN FILTER-BASED TRAJECTORY ESTIMATION USING A LOW-COST SENSOR AND AERIAL IMAGES

[Garcia-Huerta, Raul A.](#), Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico [Villalon-Turrubiates, Ivan E.](#), Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico [González-Jiménez, Luis E.](#), Instituto Tecnológico y de Estudios Superiores de Occidente, Mexico [Allende-Alba, Gerardo](#), German Aerospace Center, Germany

FR1.R15.5: COMPUTATIONAL-VISION BASED ORTHORECTIFICATION AND GEOREFENCING FOR CORRECT LOCALIZATION OF RAILWAY TRACK IN UAV IMAGERY

[Singh, Arun Kumar](#), Indian Institute of Technology Roorkee, India [Swarup, Anushka](#), University of Florida, United States [Phartiyal, Gopal Singh](#), Indian Institute of Technology Roorkee, India [Singh, Dharmendra](#), Indian Institute of Technology Roorkee, India

FR1.R15.6: WIDEBAND WAVEFORM GENERATION AND MEASUREMENT FOR HIGH-RESOLUTION X-BAND UAV-SAR

[Kim, Kyeong-Rok](#), Ajou university, Korea (South) [Kim, Jae-Hyun](#), Ajou university, Korea (South)

FR1.R15.7: REMOTE SENSING SYSTEMS FOR URBAN-SCALE DRONE AND AIR TAXI OPERATIONS

[Bajaj, Apoorva](#), University of Massachusetts Amherst, United States [Philips, Brenda](#), University of Massachusetts Amherst, United States [Lyons, Eric](#), University of Massachusetts Amherst, United States [Westbrook, David](#), University of Massachusetts Amherst, United States [Zink, Michael](#), University of Massachusetts Amherst, United States [Chandrasekar, Venkatachalam](#), Colorado State University, United States [Huffman, Ernest](#), North Central Texas Council of Governments, United States

FR1.R15.8: TARGET INFLUENCE ON GROUND CONTROL POINTS (GCPS) IDENTIFICATION IN AERIAL IMAGES

[Hruska, Jonas](#), University of Trás-os-Montes e Alto Douro, Portugal [Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Adão, Telmo](#), University of Trás-os-Montes e Alto Douro, Portugal [Peres, Emanuel](#), University of Trás-os-Montes e Alto Douro and INESC-TEC, Portugal [Martinho, José](#), University of Trás-os-Montes e Alto Douro, Portugal [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro and INESC-TEC, Portugal

FR1.R15.9: THE NEW PARAMOTOR PROJECT: FLEXIBILITY AT LOW COST TO OVERCOME MAIN LIMITATIONS OF MULTI-COPTERS AND FIXED-WINGS UAVS

[Albespy, Benjamin](#), University Savoie Mont Blanc, France [Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Roux, Emile](#), University Savoie Mont Blanc, France [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

FR1.R15.10: MULTI-AGENTS PATH PLANNING FOR A SWARM OF UNMANNED AERIAL VEHICLES

[Chyba, Monique](#), University of Hawaii, United States [Carney, Richard](#), University of Hawaii, United States [Gray, Chris](#), University of Hawaii, United States [Trimble, Zachary](#), University of Hawaii, United States

FR1.R15.11: TREE HEIGHT EXTRACTION IN SPARSE SCENES BASED ON UAV REMOTE SENSING

[Liu, Yuanzhong](#), University of Electronic Science and Technology of China, China [Xing, Minfeng](#), University of Electronic Science and Technology of China, China [Zhou, Xiaozhe](#), University of Electronic Science and Technology of China, China [Song, Yang](#), University of Western Ontario, Canada [Wang, Danyang](#), University of Electronic Science and Technology of China, China

FR1.R15.12: ESTIMATION OF LEAF AREA INDEX IN CHESTNUT TREES USING MULTISPECTRAL DATA FROM AN UNMANNED AERIAL VEHICLE

[Pádua, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Marques, Pedro](#), University of Trás-os-Montes e Alto Douro, Portugal [Martins, Luís](#), University of Trás-os-Montes e Alto Douro, Portugal [Sousa, António](#), University of Trás-os-Montes e Alto Douro, Portugal [Peres, Emanuel](#), University of Trás-os-Montes e Alto Douro, Portugal [Sousa, Joaquim J.](#), University of Trás-os-Montes e Alto Douro, Portugal

FR1.R16 - Processing and Imaging Techniques V Friday, October 2, 05:00 - 07:00 • Room 16

FR1.R16.1: A NON-LINEARLY MOVING SHIP AUTOFOCUS METHOD UNDER HYBRID COORDINATE SYSTEM

[Li, Guofei](#), Xidian University, China [Zhang, Gang](#), Xidian University, China [Qin, Hanlin](#), Xidian University, China [Liang, Yi](#), Xidian University, China

FR1.R16.2: SAR TARGET CLASSIFICATION WITH LIMITED DATA VIA DATA DRIVEN ACTIVE LEARNING

[Zhou, Yue](#), Shanghai Jiao Tong University, China [Jiang, Xue](#), Shanghai Jiao Tong University, China [Li, Zhou](#), Beijing Institute of Remote Sensing Information, China [Liu, Xingzhao](#), Shanghai Jiao Tong University, China

FR1.R16.3: EFFICIENT INSAR IMAGING BASED ON FREQUENCY-DOMAIN BACK PROJECTION ALGORITHM

[Wu, Yue](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Wang, Mou](#), University of Electronic Science and Technology of China, China [Liang, Jiadian](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China

FR1.R16.4: ISAR COMPRESSIVE SENSING IMAGING USING CONVOLUTION NEURAL NETWORK WITH INTERPRETABLE OPTIMIZATION

[Liang, Jiadian](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China [Wang, Mou](#), University of Electronic Science and Technology of China, China [Su, Hao](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Zhang, Xiaoling](#), University of Electronic Science and Technology of China, China

FR1.R16.5: AN ANALYTICAL FRAMEWORK FOR UNDERSTANDING PERSISTENT SCATTERER INCIDENCE IN INSAR IMAGERY WITH BANDWIDTH AND WAVELENGTH

[Huang, Stacey](#), Stanford University, United States [Zebker, Howard](#), Stanford University, United States

FR1.R16.6: HIGH-RESOLUTION OPTICAL AND SAR IMAGE REGISTRATION USING LOCAL SELF-SIMILAR DESCRIPTOR BASED ON EDGE FEATURE

[Pan, Yiqun](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [Xiao, Fanghong](#), University of Electronic Science and Technology of China, China [Wang, Haoyu](#), University of Electronic Science and Technology of China, China

FR1.R16.7: COSMO-SKYMED RANGE MEASUREMENTS FOR DISPLACEMENT MONITORING USING AMPLITUDE PERSISTENT SCATTERERS

[Belloni, Valeria](#), Sapienza University of Rome, Italy [Di Tullio, Marco](#), Sapienza University of Rome, Italy [Ravanelli, Roberta](#), Sapienza University of Rome, Italy [Fratarcangeli, Francesca](#), Sapienza University of Rome, Italy [Nascetti, Andrea](#), KTH Royal Institute of Technology, Sweden [Crespi, Mattia](#), Sapienza University of Rome, Italy

FR1.R16.8: A ROBUST AMBIGUITY REMOVAL METHOD FOR STAGGERED SAR

[Liao, Xingxing](#), University of Electronic Science and Technology of China, China [Xu, Mingming](#), Beijing Institute of Spacecraft System Engineering; Beijing Institute of Technology, China [Li, Kun](#), Beijing Institute of Spacecraft System Engineering, China [Liu, Zhe](#), University of Electronic Science and Technology of China, China

FR1.R16.9: SHIP DETECTION IN SAR IMAGES USING CONVOLUTIONAL VARIATIONAL

AUTOENCODERS

[Ferreira, Nuno](#), Instituto Superior Técnico - Universidade de Lisboa, Portugal [Silveira, Margarida](#), Instituto Superior Técnico - Universidade de Lisboa, Portugal

FR1.R16.10: TOWARDS DEEP UNSUPERVISED SAR DESPECKLING WITH BLIND-SPOT CONVOLUTIONAL NEURAL NETWORKS

[Bordone Molini, Andrea](#), Politecnico di Torino, Italy [Valsesia, Diego](#), Politecnico di Torino, Italy [Fracastoro, Giulia](#), Politecnico di Torino, Italy [Magli, Enrico](#), Politecnico di Torino, Italy

FR1.R16.11: REMOTE SENSING DATA AUGMENTATION THROUGH ADVERSARIAL TRAINING

[Lv, Ning](#), Xidian University, China [Ma, Hongxiang](#), Xidian University, China [Chen, Chen](#), Xidian University, China [Pei, Qingqi](#), Xidian University, China [Zhou, Yang](#), Ministry of water resources of China, China [Xiao, Fenglin](#), Ministry of water resources of China, China [Li, Ji](#), Ministry of water resources of China, China

FR1.R17 - Machine Learning for Multitemporal Image Analysis

Friday, October 2, 05:00 - 07:00 • Room 17

FR1.R17.1: S2-CGAN: SELF-SUPERVISED ADVERSARIAL REPRESENTATION LEARNING FOR BINARY CHANGE DETECTION IN MULTISPECTRAL IMAGES

[Holgado Alvarez, Jose Luis](#), TU Berlin, Germany [Ravanbakhsh, Mahdyar](#), TU Berlin, Germany [Demir, Begüm](#), TU Berlin, Germany

FR1.R17.2: FLOOD MAPPING WITH SAR AND MULTI-SPECTRAL REMOTE SENSING IMAGES BASED ON WEIGHTED EVIDENTIAL FUSION

[Chen, Xi](#), Peking University, China [Cui, Yaokui](#), Peking University, China [Wen, Changjun](#), Ministry of Civil Affairs of the People's Republic of China, China [Zheng, Mingxuan](#), Ministry of Civil Affairs of the People's Republic of China, China [Gao, Yuan](#), Ministry of Civil Affairs of the People's Republic of China, China [Li, Jing](#), Beijing Normal University, China

FR1.R17.3: A GPU ACCELERATED CONTOURLET METHOD FOR DETECTING CHANGES DUE TO FIRE USING REMOTE SENSING

[Ansari, Rizwan Ahmed](#), North Carolina Central University, United States [Thomas, Winnie](#), Indian Institute of Technology Bombay, India [Malhotra, Rakesh](#), North Carolina Central University, United States [Buddhiraju, Krishna Mohan](#), Indian Institute of Technology Bombay, India

FR1.R17.4: HYPERSPECTRAL IMAGE CHANGE DETECTION BY SELF-SUPERVISED TENSOR NETWORK

[Zhou, Feng](#), Donghua University, China [Chen, Zhao](#), Donghua University, China

FR1.R17.5: CHANGE DETECTION NETWORK OF NEARSHORE SHIPS FOR MULTI-TEMPORAL OPTICAL REMOTE SENSING IMAGES

[Cao, Jingyi](#), Beijing University of Posts and Telecommunications, China [You, Yanan](#), Beijing University of Posts and Telecommunications, China [Ning, Yuanyong](#), Beijing University of Posts and Telecommunications, China [Zhou, Wenli](#), Beijing University of Posts and Telecommunications, China

FR1.R17.6: GEOSOT GRID REMOTE SENSING INTELLIGENT INTERPRETATION MODEL BASED ON FINE-TUNING RESNET-18: A CASE STUDY OF CONSTRUCTION LAND

[Zhu, Daoye](#), Peking University, China [Yang, Yi](#), Peking University, China [Zhai, Weixin](#), Peking University, China [Ren, Fuhu](#), Peking University, China [Cheng, Chengqi](#), Peking University, China [Huang, Min](#), Wuhan University, China

FR1.R17.8: CHANGE OF GLACIAL LAKE IN KARAKORAM RANGE

[Mou, Fan](#), University of Electronic Science and Technology of China, China [Wang, Danyang](#), University of Electronic Science and Technology of China, China [Liu, Jiaxi](#), University of Electronic Science and Technology of China, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China [Jiang, Liming](#), Chinese Academy of Sciences, China [Zhou, Guoqing](#), Guilin University of Technology, China [Zhou, Fangrong](#), Yunnan Power Grid Co., Ltd., China

FR1.R17.9: SIAMESE GENERATIVE ADVERSARIAL NETWORK FOR CHANGE

DETECTION UNDER DIFFERENT SCALES

[Liu, Mengxi](#), Sun Yat-sen University, China [Shi, Qian](#), Sun Yat-sen University, China [Liu, Penghua](#), Sun Yat-sen University, China [Wan, Cheng](#), Sun Yat-sen University, China

FR1.R17.10: A DEEP GENERALIZED CORRELATION NETWORK FOR BITEMPORAL IMAGE CHANGE DETECTION

[Wang, Rongfang](#), Xidian University, China [Wang, Weidong](#), Xidian University, China [Chen, Jia-Wei](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China [Hao, Hongxia](#), Xidian University, China

FR1.R17.11: A LIGHTWEIGHT CONVOLUTIONAL NEURAL NETWORK FOR BITEMPORAL IMAGE CHANGE DETECTION

[Wang, Rongfang](#), Xidian University, China [Ding, Fan](#), Xidian University, China [Chen, Jia-Wei](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China [Wang, Liang](#), Xidian University, China

FR1.R17.12: PROPAGATED UNCERTAINTY FOR HORIZONTAL GROUND MOTION DERIVED FROM MULTI-TEMPORAL DIGITAL ELEVATION MODELS

[Hartzell, Preston](#), University of Houston, United States [Glennie, Craig](#), University of Houston, United States

FR1.R18 - Network Based Classifier Friday, October 2, 05:00 - 07:00 • Room 18

FR1.R18.1: IMPROVEMENT OF CNN-BASED ROAD EXTRACTION FROM SATELLITE IMAGES VIA MORPHOLOGICAL IMAGE PROCESSING

[Im, Heeji](#), Ajou University, Korea (South) [Yang, Hoeseok](#), Ajou University, Korea (South)

FR1.R18.2: IRON ORE REGION SEGMENTATION USING HIGH-RESOLUTION REMOTE SENSING IMAGES BASED ON RES-U-NET

[Mustafa, Noman](#), Shanghai Jiao Tong University, China [Zhao, Juanping](#), Shanghai Jiao Tong University, China [Liu, Zeyu](#), Shanghai Jiao Tong University, China [Zhang, Zenghui](#), Shanghai Jiao Tong University, China [Yu, Wenxian](#), Shanghai Jiao Tong University, China

FR1.R18.3: AN EMPIRICAL STUDY ON FULLY CONVOLUTIONAL NETWORK AND HYPERCOLUMN METHODS FOR UAV REMOTE SENSING IMAGERY CLASSIFICATION

[Su, Lihong](#), Texas A&M University-Corpus Christi, United States [Huang, Yuxia](#), Texas A&M University-Corpus Christi, United States [Hu, Zhiyong](#), University of West Florida, United States

FR1.R18.4: SEGMENTATION OF HIGH SPATIAL RESOLUTION REMOTE SENSING IMAGE BASED ON U-NET CONVOLUTIONAL NETWORKS

[Zheng, Xiaoxiong](#), China University of Geosciences, China [Chen, Tao](#), China University of Geosciences, China

FR1.R18.5: SHIP SEGMENTATION ON HIGH-RESOLUTION SAR IMAGE BY A 3D DILATED MULTISCALE U-NET

[Li, Jichao](#), Xidian University, China [Guo, Chubing](#), CETC, China [Gou, Shuiping](#), Xidian University, China [Chen, Yuanbo](#), Beijing Huahang Radio Measurement and Research Institute, China [Wang, Miao](#), Xidian University, China [Chen, Jia-Wei](#), Xidian University, China

FR1.R18.6: A NOVEL GLOBAL-AWARE DEEP NETWORK FOR ROAD DETECTION OF VERY HIGH RESOLUTION REMOTE SENSING

[Lu, Xiaoyan](#), Wuhan University, China [Zhong, Yanfei](#), Wuhan University, China [Zheng, Zhuo](#), Wuhan University, China

FR1.R18.7: DEEP ENCODER-DECODER NETWORK BASED ON THE UP AND DOWN BLOCKS USING WAVELET TRANSFORM FOR CLOUD DETECTION

[Zhang, Jing](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Wang, Hui](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Zhou, Qin](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Wang, Yuchen](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Li, Yunsong](#), State Key Laboratory of Integrated Service Networks, Xidian University, China

FR1.R18.8: BILATERAL SIAMESE NETWORK FOR CHANGE DETECTION USING HIGH RESOLUTION REMOTE SENSING IMAGES

[Fu, Chengjin](#), Shanghai Jiao Tong University, China [Bao, Tengfei](#), Shanghai Jiao Tong University, China [Lv, Liang](#), Shanghai Jiao Tong University, China [Liu, Jingdong](#), Shanghai Jiao Tong University, China [Fang, Tao](#), Shanghai Jiao Tong University, China [Huo, Hong](#), Shanghai Jiao Tong University, China

[FR1.R18.9: APPLICATION OF A HYPER-PARAMETER OPTIMIZATION ALGORITHM USING MARS SURROGATE FOR DEEP POLSAR IMAGE CLASSIFICATION MODELS](#)

[Liu, Guangyuan](#), Xidian University, China [Li, Yangyang](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China

[FR1.R18.10: LIGHT-WEIGHT ATTENTION SEMANTIC SEGMENTATION NETWORK FOR HIGH-RESOLUTION REMOTE SENSING IMAGES](#)

[Liu, Siyu](#), University of Electronic Science and Technology of China, China [He, Changtao](#), Sichuan Jiuzhou Electric Group Co., Ltd, China [Bai, Haiwei](#), University of Electronic Science and Technology of China, China [Zhang, Yijie](#), University of Electronic Science and Technology of China, China [Cheng, Jian](#), University of Electronic Science and Technology of China, China

[FR1.R18.11: NEW NETWORK BASED ON D-LINKNET AND RESNEXT FOR HIGH RESOLUTION SATELLITE IMAGERY ROAD EXTRACTION](#)

[Fan, Kunlong](#), University of Electronic Science and Technology of China, China [Li, Yuxia](#), University of Electronic Science and Technology of China, China [He, Lei](#), Chengdu University of Information Technology, China [Yuan, Lang](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China

[FR1.R18.12: AUTOMATED OPENSTREETMAP DATA ALIGNMENT FOR ROAD NETWORK MAPPING](#)

[Liu, Tao](#), Oak Ridge National Laboratory, United States [Lunga, Dalton](#), Oak Ridge National Laboratory, United States

FR1.R19 - Satellite Remote Sensing of Atmospheric Composition: Friday, October 2, 05:00 - 07:00 • Room 19
Algorithms, Applications, and Process Studies II

[FR1.R19.1: DETECTION OF NIGHTTIME FIRE COMBUSTION EFFICIENCY FOR WILDFIRES FROM VIIRS](#)

[Wang, Jun](#), University of Iowa, United States [Zhou, Meng](#), University of Iowa, United States [Roudinin, Sepehr](#), University of Iowa, United States [Xu, Xiaoguang](#), University of Iowa, United States [Castro Garcia, Lorena](#), University of Iowa, United States [Hyer, Edward](#), Naval Research Laboratory, United States [Reid, Jeffrey](#), Naval Research Laboratory, United States [Da Silva, Arlindo](#), NASA Goddard Space Flight Center, United States

[FR1.R19.2: RECOVERY OF THE CARBON MONOXIDE PRODUCT FROM S5P-TROPOMI BY FUSING MULTIPLE DATASETS: A CASE STUDY IN HUBEI PROVINCE, CHINA](#)

[Wang, Yuan](#), Wuhan University, China [Yuan, Qiangqiang](#), Wuhan University, China [Xiao, Ruixue](#), Shandong University, China [Li, Tongwen](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

[FR1.R19.3: CHARACTERIZATION OF BIOMASS BURNING AEROSOLS DURING THE 2019 FIRE EVENT: SINGAPORE AND KUCHING CITIES](#)

[Salinas, Santo V.](#), National University of Singapore, Singapore [Tan, Li](#), National University of Singapore, Singapore [Madala, Srikanth](#), National University of Singapore, Singapore [Liew, Soo Chin](#), National University of Singapore, Singapore

[FR1.R19.4: ANALYZING METEOROLOGICAL AND CHEMICAL CONDITIONS FOR TWO HIGH OZONE EVENTS OVER THE NEW YORK CITY AND LONG ISLAND REGION](#)

[Tian, Yuhong](#), New York State Department of Environmental Conservation, United States [LaFarr, Margaret](#), New York State Department of Environmental Conservation, United States [Yun, Jeongran](#), New York State Department of Environmental Conservation, United States [Civerolo, Kevin](#), New York State Department of Environmental Conservation, United States [Hao, Winston](#), New York State Department of Environmental Conservation, United States [Zalewsky, Eric](#), New York State Department of Environmental Conservation, United States [Zhou, Liming](#), University at Albany, State University of New York, United States

[FR1.R19.5: PRODUCTS AND SCIENCE ACHIEVEMENTS OF GOSAT SATELLITE SERIES](#)

[Matsunaga, Tsuneo](#), National Institute for Environmental Studies, Japan [Kuze, Akihiko](#), Japan Aerospace Exploration Agency, Japan [Imasu, Ryoichi](#), University of Tokyo, Japan

[FR1.R19.6: RETRIEVAL OF TOTAL OZONE COLUMN USING DIFFERENTIAL OPTICAL ABSORPTION SPECTROSCOPY \(DOAS\) ALGORITHM FROM ULTRAVIOLET SOLAR RADIATION DATA](#)

[Li, Wan](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Qian, Yonggang](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Ning](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Kun](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ma, Lingling](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Tang, Lingli](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China [Li, Chuanrong](#), Key Laboratory of Quantitative Remote Sensing Information Technology, Aerospace Information Research Institute, Chinese Academy of Sciences, China

[FR1.R19.7: EVALUATION OF THE RELATIONSHIP BETWEEN IASI NH3R-I TOTAL COLUMN AND TERRESTRIAL VEGETATION CONDITIONS](#)

[Wu, Zihua](#), Peking University, China [Qin, Qiming](#), Peking University, China

[FR1.R19.8: ESTIMATE OF GROUND-LEVEL OZONE CONCENTRATIONS BY USING OMI OBSERVATIONS AND MACHINE LEARNING: A CASE STUDY IN ATLANTA GEORGIA U.S.A.](#)

[Huang, Guanyu](#), Spelman College, United States [Liu, Xiong](#), Harvard Smithsonian Center for Astrophysics, United States

[FR1.R19.9: CHANGE IN LAND AND OCEAN PARAMETERS ALONG THE TRACK OF TROPICAL CYCLONE FANI](#)

[Chauhan, Akshansha](#), Sharda University, India [Singh, Ramesh P](#), Chapman University, United States [Kumar, Rajesh](#), Central University of Rajasthan, India [Dash, Prasanjit](#), Colorado State University CIRA, United States

[FR1.R19.10: SATELLITE-BASED HIGH-SPATIAL-RESOLUTION AND HIGH-QUALITY FINE PARTICULATE MATTERS ACROSS CHINA](#)

[Wei, Jing](#), Beijing Normal University, China [Li, Zhanqing](#), University of Maryland, United States

[FR1.R19.11: LONG-TERM SPATIOTEMPORAL TREND ANALYSIS \(1998-2016\) OF PM2.5 IN CHINA USING SATELLITE PRODUCT](#)

[Han, Weihong](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China [Wen, Jiang](#), University of Electronic Science and Technology of China, China

FR2.R1 - Hydrologic Remote Sensing, Friday, October 2, 07:30 - 09:30 • Room 1 Modeling and Data Assimilation

[FR2.R1.1: ADAPTIVE FILTERING FOR \(SOIL MOISTURE\) DATA ASSIMILATION](#)

[Gruber, Alexander](#), KU Leuven, Belgium [De Lannoy, Gabrielle](#), KU Leuven, Belgium

[FR2.R1.2: IMPACT OF MODEL COUPLING BIAS ON WATER FLUX ESTIMATES ACQUIRED FROM A LAND DATA ASSIMILATION SYSTEM](#)

[Crow, Wade](#), USDA ARS, United States

[FR2.R1.3: INVESTIGATING THE ASSIMILATION OF LEAF AREA INDEX PRODUCTS AT DIFFERENT TEMPORAL RESOLUTIONS IN A LAND SURFACE MODEL](#)

[Zhang, Xinxuan](#), George Mason University, United States [Maggioni, Viviana](#), George Mason University, United States [Rahman, Azbina](#), George Mason University, United States

[FR2.R1.4: ANTECEDENT WETNESS CONDITIONS OF EUROPEAN FLOODS: A COMPREHENSIVE STUDY](#)

[Massari, Christian](#), National Research Council, Italy [Camici, Stefania](#), National Research Council, Italy

[FR2.R1.5: THE POTENTIAL OF SWOT RIVER DISCHARGE ESTIMATES TO CONSTRAIN HYDROLOGICAL PROCESSES GLOBALLY IN UNGAGED BASINS](#)

[Durand, Michael](#), Ohio State University, United States [Gleason, Colin](#), University of Massachusetts Amherst, United States [Prata de Moraes Frasson, Renato](#), Ohio State University, United States [Pavelsky, Tamlin](#), University of North Carolina, United States

[FR2.R1.6: STORM POWER OUTAGE PREDICTION AND VERIFICATION USING NWP MODELS AND REMOTE SENSING DATA](#)

[Cerrai, Diego](#), University of Connecticut, United States [Watson, Peter](#), University of Connecticut, United States [Yang, Feifei](#), University of Connecticut, United States [Koukoulou, Marika](#), University of Connecticut, United States [Anagnostou, Emmanouil](#), University of Connecticut, United States

[FR2.R1.7: OBSERVATION-DRIVEN ESTIMATION OF SURFACE WATER BALANCE COMPONENTS FROM SMAP MEASUREMENTS](#)

[Akbar, Ruzbeh](#), Massachusetts Institute of Technology, United States [Gianotti, Daniel](#), Massachusetts Institute of Technology, United States [McColl, Kaighin](#), Harvard University, United States [Salvucci, Guido](#), Boston University, United States [Entekhabi, Dara](#), Massachusetts Institute of Technology, United States

FR2.R2 - Machine Learning and Artificial Intelligence for Remote Sensing

Friday, October 2, 07:30 - 09:30 • Room 2

[FR2.R2.1: IMPROVED GENETIC ALGORITHM FOR BUNDLE ADJUSTMENT IN PHOTOGRAMMETRY](#)

[Zuo, Zhengkang](#), Peking University, China [Sun, Yiyuan](#), Peking University, China [Zhang, Ruihua](#), Peking University, China [Yan, Lei](#), Peking University, China

[FR2.R2.2: SATELLITE OBSERVATION OF TRANS-MERIDIONAL PROPAGATING INTERNAL WAVES IN THE CELEBES SEA](#)

[Zhang, Xudong](#), Institute of Oceanology, Chinese Academy of Sciences, China [Zhang, Tao](#), Shandong University of Science and Technology; Institute of Oceanology, Chinese Academy of Sciences, China [Li, Xiaofeng](#), Institute of Oceanology, Chinese Academy of Sciences, United States

[FR2.R2.3: SPATIAL RESOLUTION ENHANCEMENT OF UNMANNED AIRCRAFT SYSTEM IMAGERY USING DEEP LEARNING-BASED SINGLE IMAGE SUPER-RESOLUTION](#)

[Pashaei, Mohammad](#), Texas A&M University-Corpus Christi, United States [Starek, Michael J.](#), Texas A&M University-Corpus Christi, United States [Kamangir, Hamid](#), Texas A&M University-Corpus Christi, United States [Berryhill, Jacob](#), Texas A&M University-Corpus Christi, United States

[FR2.R2.4: EDGE PREDICTION NET FOR RECONSTRUCTING ROAD LABELS CONTAMINATED BY CLOUDS](#)

[Xu, Miao](#), Shanghai Jiao Tong University, China [Li, Yuanxiang](#), Shanghai Jiao Tong University, China [Zhong, Juanjuan](#), AVIC Leihua Electric Technology Research Institute, China [Zhang, Yuxuan](#), Shanghai Jiao Tong University, China [Liu, Xingang](#), AVIC Leihua Electric Technology Research Institute, China

[FR2.R2.5: MINERAL DETECTION FROM HYPERSPECTRAL IMAGES USING A SPATIAL-SPECTRAL RESIDUAL CONVOLUTIONAL NEURAL NETWORK](#)

[Zeng, Hao](#), Beihang University, China [Liu, Qingjie](#), Beihang University, China [Han, Xiaoqing](#), Beijing Research Institute of Uranium Geology, China [Wang, Yunhong](#), Beihang University, China

[FR2.R2.6: RADIO-FREQUENCY INTERFERENCE LOCATION, DETECTION AND CLASSIFICATION USING DEEP NEURAL NETWORKS](#)

[Perez, Adrian](#), Universitat Politècnica de Catalunya (UPC), Spain [Querol, Jorge](#), University of Luxembourg, Luxembourg [Park, Hyuk](#), Universitat Politècnica de Catalunya (UPC), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya (UPC), Spain

FR2.R2.7: UNBALANCED GEOLOGIC BODY CLASSIFICATION OF HYPERSPECTRAL DATA BASED ON SQUEEZE AND EXCITATION NETWORKS AT TIANSHAN AREA

[Liang, Yuchen](#), Beijing Normal University, China [Zhao, Zhengang](#), Beijing Normal University, China [Wang, Hao](#), Beijing Normal University, China [Cao, Ying](#), Beijing Institute of Geology, China [Huang, Tao](#), Beijing Normal University, China [Medjadba, Yasmine](#), Beijing Normal University, China [Wang, Yuntao](#), Beijing Institute of Geology, China [Jiao, RunCheng](#), Beijing Institute of Geology, China [Chen, Siying](#), Beijing Normal University, China [Yu, Xianchuan](#), Beijing Normal University, China

FR2.R2.8: HLS-BASED FPGA IMPLEMENTATION OF CONVOLUTIONAL DEEP BELIEF NETWORK FOR SIGNAL MODULATION RECOGNITION

[Zhao, Jian](#), Harbin Institute of Technology, China [Zhao, Yaqin](#), Harbin Institute of Technology, China [Li, Hongbo](#), Harbin Institute of Technology, China [Zhang, Yun](#), Harbin Institute of Technology, China [Wu, Longwen](#), Harbin Institute of Technology, China

FR2.R2.9: CORRELATION ATTENTION FOR REMOTE SENSING IMAGE CAPTIONING

[Tian, Jingxian](#), Xidian University, China [Wang, Shuang](#), Xidian University, China [Gu, Yu](#), Xidian University, China [Meng, Yun](#), Xidian University, China [Ye, Xiutiao](#), Xidian University, China [Zhang, Lei](#), Xidian University, China [Wang, Jihui](#), Xidian University, China [Hou, Biao](#), Xidian University, China

FR2.R2.10: RTC-GAN: REAL-TIME CLASSIFICATION OF SATELLITE IMAGERY USING DEEP GENERATIVE ADVERSARIAL NETWORKS WITH INFUSED SPECTRAL INFORMATION

[Gandikota, Rohit](#), National Remote Sensing Center, Indian Space Research Organisation, India [Kavuluru, Radha Krishna](#), National Remote Sensing Center, Indian Space Research Organisation, India [Sharma, Anupama](#), National Remote Sensing Center, Indian Space Research Organisation, India [M, ManjuSarma](#), National Remote Sensing Center, Indian Space Research Organisation, India [Bothale, Vinod M](#), National Remote Sensing Center, Indian Space Research Organisation, India

FR2.R2.11: A METHOD TO CREATE TRAINING DATASET FOR DEHAZING WITH CYCLEGAN

[Zhang, Hui](#), Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd, China [Mou, Fan](#), University of Electronic Science and Technology of China, China [Duan, Shangqi](#), Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd, China [Huang, Shuangde](#), Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd, China [Wang, Shengwei](#), Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd, China [Xu, Debin](#), Kunming Power Supply Bureau of Yunnan Power Grid Co., Ltd, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China

FR2.R2.12: RADAR SENSOR SIMULATION WITH GENERATIVE ADVERSARIAL NETWORK

[Rahnemoonfar, Maryam](#), University of Maryland, Baltimore County, United States [Yari, Masoud](#), University of Maryland, Baltimore County, United States [Paden, John](#), University of Kansas, United States

FR2.R3 - Object Detection and Segmentation

Friday, October 2, 07:30 - 09:30 • Room 3

FR2.R3.1: CLOUD SHADOW DETECTION IN HYPERSPECTRAL IMAGERY USING BACKPROPAGATION NEURAL NETWORK WITH LIDAR DATA

[Xu, Meng](#), Shenzhen University, China [Jia, Sen](#), Shenzhen University, China

FR2.R3.2: AUTOMATIC SINGLE-IMAGE BASED CLOUD DETECTION METHOD WITHOUT PRIOR INFORMATION

[Liu, Yuhang](#), University of Electronic Science and Technology of China, China [Peng, Zhenming](#), University of Electronic Science and Technology of China, China

FR2.R3.3: SATELLITE ATTITUDE CHANGE RECOGNITION BASED ON MULTI-FRAME IMAGE BY 3D CONVOLUTIONAL NEURAL NETWORKS

[Yuan, Haoxuan](#), Harbin Institute of Technology, China [Zhang, Yun](#), Harbin Institute of

Technology, China [Gong, Xiaodong](#), Southwest electronic equipment research institute, China [Li, Hongbo](#), Harbin Institute of Technology, China [Niu, Muqun](#), Harbin Institute of Technology, China

FR2.R3.4: HOW MUCH WAVELET DECOMPOSITION CAN IMPROVE THE DETECTION OF SURFACE FRACTURES IN REMOTE SENSING IMAGES?

[Souza, Eniuce](#), State University of Maringa, Brazil [Marques Jr, Ademir](#), Unisinos University, Brazil [Horota, Rafael](#), Unisinos University, Brazil [Kupssinsku, Lucas](#), Unisinos University, Brazil [Rossa, Pedro](#), Unisinos University, Brazil [Aires, Alysson](#), Unisinos University, Brazil [Silveira Junior, Luiz](#), Unisinos University, Brazil [Veronez, Maurício](#), Unisinos University, Brazil [Cazarin, Carol](#), PETROBRAS, Brazil

FR2.R3.5: REDUCING THE RECEIVING ARRAY COMPLEXITY BY USING THE PARALLEL STOCHASTIC RESONANCE SYSTEM

[He, Di](#), Shanghai Jiao Tong University, China [Zhu, Fusheng](#), Guangdong Communications & Networks Institute, China [Sun, Lijuan](#), NXP Semiconductors, China [Yu, Wenxian](#), Shanghai Jiao Tong University, China

FR2.R3.6: RESEARCH ON C&I JAMMING BASED ON FREQUENCY DIVERSE ARRAY ANTENNA

[Wang, Hui](#), State Grid Anhui Electric Power CO., LTD, China [Zhang, Shunsheng](#), University of Electronic Science and Technology of China, China [Zhang, Lu](#), State Grid Anhui Electric Power CO., LTD, China [Wang, Xiaowei](#), State Grid Anhui Electric Power CO., LTD, China [Huang, Bang](#), University of Electronic Science and Technology of China, China

FR2.R3.7: OBJECT DETECTION FOR REMOTE SENSING IMAGES BASED ON GUIDED ANCHORING AND FEATURE FUSION

[Wang, Wei](#), National University of Defense Technology, China [Tian, Zhuangzhuang](#), National University of Defense Technology, China [Zhan, Ronghui](#), National University of Defense Technology, China [Zhang, Jun](#), National University of Defense Technology, China [Zhuang, Zhaowen](#), National University of Defense Technology, China

FR2.R3.8: HIGH-RESOLUTION IMAGING BASED ON TEMPORAL-SPATIAL STOCHASTIC RADIATION FIELD AND COMPRESSIVE SENSING THEORY

[Zhang, Rui](#), Xidian University, China [Quan, Yinghui](#), Xidian University, China [Xu, Ran](#), Beijing Institute of Electronic System Engineering, China [Zhu, Shengqi](#), Xidian University, China [Li, Yachao](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China

FR2.R3.9: A DEFORMABLE CONVOLUTION NEURAL NETWORK FOR SAR ATR

[Wang, Zhiyong](#), University of Electronic Science and Technology of China, China [Wang, Chenwei](#), University of Electronic Science and Technology of China, China [Pei, Jifang](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Zhang, Yin](#), University of Electronic Science and Technology of China, China [Yang, Haiguang](#), University of Electronic Science and Technology of China, China

FR2.R3.10: A NOVEL FRAMEWORK OF CNN INTEGRATED WITH ADABOOST FOR REMOTE SENSING SCENE CLASSIFICATION

[Hu, Xudong](#), Wuhan University, China [Zhang, Penglin](#), Wuhan University, China [Zhang, Qi](#), Wuhan University, China

FR2.R3.11: SUPERVISED ADAPTIVE-RPN NETWORK FOR OBJECT DETECTION IN REMOTE SENSING IMAGES

[Tang, Xu](#), Xidian University, China [Zhang, Huayu](#), Xidian University, China [Ma, Jingjing](#), Xidian University, China [Zhang, Xiangrong](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China

FR2.R3.12: DEEP ADAPTIVE PROPOSAL NETWORK IN OPTICAL REMOTE SENSING IMAGES OBJECTIVE DETECTION

[Li, Lingling](#), Xidian University, China [Cheng, Lin](#), Xidian University, China [Guo, Xiaohui](#), Xidian University, China [Liu, Xu](#), Xidian University, China [Jiao, Licheng](#), Xidian University, China [Liu, Fang](#), Xidian University, China

FR2.R4 - New Algorithms for
NewSpace: Detecting Difficult Targets

Friday, October 2, 07:30 - 09:30 • Room 4

FR2.R4.1: HYPERSTRING CONSTRUCTION OF SUB-PIXEL DETECTORS

[Schaum, Alan](#), Naval Research Laboratory, United States

FR2.R4.2: REGIONAL SURVEYS OF CH4 POINT SOURCES ACROSS NORTH AMERICA: CAMPAIGNS, ALGORITHMS, AND RESULTS

[Thompson, David R](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Bue, Brian](#), NASA Jet Propulsion Laboratory, California Institute of Technology / University of Arizona, United States [Duren, Riley](#), NASA Jet Propulsion Laboratory, California Institute of Technology / University of Arizona, United States [Elder, Clayton](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Frankenberg, Christian](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Green, Robert](#), NASA Jet Propulsion Laboratory, United States [Hook, Simon](#), NASA Jet Propulsion Laboratory, United States [Hulley, Glynn](#), NASA Jet Propulsion Laboratory, United States [Miller, Charles](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Thorpe, Andrew](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States [Dennison, Philip](#), NASA Jet Propulsion Laboratory, California Institute of Technology, United States

FR2.R4.3: IMPROVING PHYSICAL AND STATISTICAL MODELS FOR DETECTING DIFFICULT TARGETS WITH LRT DETECTORS IN CLOSED-FORM

[Matteoli, Stefania](#), National Research Council of Italy, Italy [Diani, Marco](#), Italian Naval Academy, Italy [Corsini, Giovanni](#), University of Pisa, Italy

FR2.R4.4: OFF-NADIR LONGWAVE INFRARED HYPERSPECTRAL MATERIAL IDENTIFICATION USING RADIOMETRIC MODELS

[Zelinski, Michael](#), Lawrence Livermore National Laboratory, United States

FR2.R4.5: A NEW AUTOENCODER TRAINING PARADIGM FOR UNSUPERVISED HYPERSPECTRAL ANOMALY DETECTION

[Merrill, Nicholas](#), Virginia Tech, United States [Olson, Colin](#), U.S. Naval Research Laboratory, United States

FR2.R4.6: MULTI-TEMPORAL UNMIXING FOR THE DETECTION AND CONCENTRATION OF CHEMICALS IN POLLUTED WATER

[Shimoni, Michal](#), Belgian Royal Military Academy, Belgium [Perneel, Christiaan](#), Royal Military academy, Belgium

FR2.R4.7: TEMPORAL ANOMALY DETECTION IN MULTISPECTRAL IMAGERY

[Ziemann, Amanda](#), Los Alamos National Laboratory, United States [Simonoko, Hope](#), Los Alamos National Laboratory, United States [Flynn, Eric](#), Los Alamos National Laboratory, United States

FR2.R5 - Data Fusion: Hyperspectral and Lidar Friday, October 2, 07:30 - 09:30 • Room 5

FR2.R5.1: DENSIFICATION OF AIRBORNE LIDAR POINT CLOUD WITH FUSED ENCODER-DECODER NETWORKS

[Wang, Weimin](#), National Institute of Advanced Industrial Science and Technology (AIST), Japan [Vinayaraj, Poliyapram](#), AIST-Tokyo Tech Real World Big-Data Computation Open Innovation Laboratory (RWBC-OIL), Japan [Nakamura, Ryosuke](#), National Institute of Advanced Industrial Science and Technology (AIST), Japan

FR2.R5.2: FUSION OF MULTISPECTRAL LIDAR AND HYPERSPECTRAL IMAGERY

[Rasti, Behnood](#), Helmholtz Institute Freiberg for Resource Technology, Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Germany [Ghamisi, Pedram](#), Helmholtz Institute Freiberg for Resource Technology, Helmholtz-Zentrum Dresden-Rossendorf, Germany [Gloaguen, Richard](#), Helmholtz Institute Freiberg for Resource Technology, Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Germany

FR2.R5.3: DEEP INTRA FUSION FOR HYPERSPECTRAL IMAGE SUPER-RESOLUTION

[Hu, Jing](#), Xi'an University of Technology, China [Chen, Huilin](#), Xi'an University of Technology, China [Zhao, Minghua](#), Xi'an University of Technology, China [Li, Yunsong](#), Xidian University,

China

[FR2.R5.4: COMBINED THE DATA-DRIVEN WITH MODEL-DRIVEN STRATEGY: A NOVEL FRAMEWORK FOR MIXED NOISE REMOVAL IN HYPERSPECTRAL IMAGE](#)

[Zhang, Qiang](#), Wuhan University, China [Sun, Fujun](#), Beijing Electro-mechanical Engineering Institute, China [Yuan, Qiangqiang](#), Wuhan University, China [Li, Jie](#), Wuhan University, China [Shen, Huanfeng](#), Wuhan University, China [Zhang, Liangpei](#), Wuhan University, China

[FR2.R5.5: DEEP RESIDUAL SPATIAL ATTENTION NETWORK FOR HYPERSPECTRAL PANSHARPENING](#)

[Zheng, Yuxuan](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Li, Jiaojiao](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Li, Yunsong](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Shi, Yanzi](#), State Key Laboratory of Integrated Service Networks, Xidian University, China [Qu, Jiahui](#), State Key Laboratory of Integrated Service Networks, Xidian University, China

[FR2.R5.6: PROBABILITY FUSION FOR HYPERSPECTRAL AND LIDAR DATA](#)

[Ge, Chiru](#), Shandong Normal University, China [Du, Qian](#), Mississippi State University, United States

[FR2.R5.7: CNN-BASED TREE SPECIES CLASSIFICATION USING AIRBORNE LIDAR DATA AND HIGH-RESOLUTION SATELLITE IMAGE](#)

[Li, Hui](#), Aerospace Information Research Institute, China [Hu, Baoxin](#), York University, Canada [Li, Qian](#), York University, Canada [Jing, Linhai](#), Aerospace Information Research Institute, China

[FR2.R5.8: HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION USING NON-CONVEX RELAXATION LOW RANK AND TOTAL VARIATION REGULARIZATION](#)

[Yuan, Yue](#), Northwestern Polytechnical University, China [Qi, Wang](#), Northwestern Polytechnical University, China [Li, Xuelong](#), Northwestern Polytechnical University, China

[FR2.R5.9: DATA-DRIVEN AND MODEL-DRIVEN SPECTRAL SUPERRESOLUTION ALGORITHMS: COMBINATION, ANALYSIS AND APPLICATION FOR CLASSIFICATION](#)

[He, Jiang](#), Wuhan University, China [Li, Jie](#), Wuhan University, China [Yuan, Qiangqiang](#), Wuhan University, China

[FR2.R5.10: LOCALLY LINEAR RECONSTRUCTION FOR SPECTRAL ENHANCEMENT USING LIMITED PIXEL-TO-PIXEL MULTISPECTRAL AND HYPERSPECTRAL DATA](#)

[Hong, Danfeng](#), German Aerospace Center (DLR), Germany [Yao, Jing](#), German Aerospace Center (DLR), Germany [Hang, Renlong](#), Nanjing University of Information Science and Technology, China [Chanussot, Jocelyn](#), Univ. Grenoble Alpes, INRIA, CNRS, Grenoble INP, LJK, France

[FR2.R5.11: TOTAL NUCLEAR NORMS OF GRADIENTS FOR HYPERSPECTRAL IMAGE PANSHARPENING](#)

[Yuzuriha, Ryota](#), University of Kitakyushu, Japan [Kurihara, Ryuji](#), University of Kitakyushu, Japan [Matsuoka, Ryo](#), Kyushu Institute of Technology, Japan [Okuda, Masahiro](#), University of Kitakyushu, Japan

FR2.R6 - Advanced Processing Tools Friday, October 2, 07:30 - 09:30 • Room 6 for Feature Extraction and Reductions

[FR2.R6.1: A RADIATION BASED TOPOGRAPHIC CORRECTION METHOD ON LANDSAT 8/OLI SURFACE REFLECTANCE](#)

[Zhao, Wei](#), Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China [Li, Xinjuan](#), Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China [Wen, Fengping](#), Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China [Wang, Wei](#), Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China

[FR2.R6.2: HYPERSPECTRAL DATA CLASSIFICATION AND REGRESSION USING WAVELET TRANSFORM](#)

[Yamada, Takato](#), University of Tokyo, Japan [Iwasaki, Akira](#), University of Tokyo, Japan [Inoue, Yoshio](#), University of Tokyo, Japan

FR2.R6.3: NOISE ANALYSIS OF HYPERSPECTRAL IMAGES CAPTURED BY DIFFERENT SENSORS

[Zhang, Shuo](#), Hunan University, China [Kang, Xudong](#), Hunan University, China [Mo, Yan](#), Hunan University, China [Li, Shutao](#), Hunan University, China

FR2.R6.4: RESEARCH OF HILBERT HUANG TRANSFORM ALGORITHM AND ITS IMPROVEMENT

[Luo, Jingxin](#), Research Institute of Electronic Science and Technology, University of Electronic Science and Technology of China, China [Tang, Jianyang](#), Research Institute of Electronic Science and Technology, University of Electronic Science and Technology of China, China

FR2.R6.5: A NOVEL VARIATIONAL AUTOENCODER BASED RADAR SIGNAL RECONSTRUCTION ALGORITHM USING POLLUTED DATA

[Jing, Zehuan](#), Xidian University, China [Wu, Bin](#), Xidian University, China [Li, Peng](#), Xidian University, China [Yang, Rui](#), Xidian University, China [Li, Jingyi](#), Xidian University, China [Wang, Zhao](#), Xidian University, China

FR2.R6.6: DR-KNN: A HYBRID APPROACH FOR DIMENSIONALITY REDUCTION OF EO IMAGE DATASETS

[Griparis, Andreea](#), University Politehnica of Bucharest, Research Center for Spatial Information, Romania [Faur, Daniela](#), University Politehnica of Bucharest, Research Center for Spatial Information, Romania [Datu, Mihai](#), German Aerospace Center (DLR), Germany

FR2.R6.7: SUBPIXEL-LEVEL EDGE FEATURE MATCHING FOR SAR AND OPTICAL IMAGES BASED ON ZERNIKE MOMENTS

[Qian, Huan](#), Beijing Normal University, China [Yue, Jianwei](#), Beijing Normal University, China [Chen, Min](#), Southwest Jiaotong University, China [Wang, Modi](#), Beijing Normal University, China [Xin, Haigiang](#), Xinjiang Academy of Surveying and Mapping, China

FR2.R6.8: POLSAR IMAGE FEATURE EXTRACTION BASED ON CO-REGULARIZATION

[Huang, Xiayuan](#), Chinese Academy of Sciences, China [Nie, Xiangli](#), Chinese Academy of Sciences, China [Qiao, Hong](#), Chinese Academy of Sciences, China

FR2.R6.9: VIDEO SATELLITE IMAGERY SUPER RESOLUTION FOR 'JILIN-1' VIA A SINGLE-AND-MULTI FRAME ENSEMBLED FRAMEWORK

[Zhang, Shu](#), Wuhan University, China [Yuan, Qiangqiang](#), Wuhan University, China [Li, Jie](#), Wuhan University, China

FR2.R6.10: ADVANCING TEXTURE METRICS TO MODEL LANDSCAPE HETEROGENEITY

[Schuh, Leila](#), University of Zurich, Switzerland [Schaeppman, Michael](#), University of Zurich, Switzerland [Santos, Maria J.](#), University of Zurich, Switzerland [de Jong, Rogier](#), Swiss Re Institute, Switzerland [Furrer, Reinhard](#), University of Zurich, Switzerland

FR2.R6.11: RESEARCH ON STEREO MATCHING FOR SATELLITE GENERALIZED IMAGE PAIR BASED ON IMPROVED SURF AND RFM

[Li, Xiaoxi](#), University of Electronic Science and Technology of China, China [Luo, Xin](#), University of Electronic Science and Technology of China, China [Wu, Yuxuan](#), University of Electronic Science and Technology of China, China [Li, Zhuotao](#), University of Electronic Science and Technology of China, China [Xu, Wenbo](#), University of Electronic Science and Technology of China, China

FR2.R6.12: A FAST DENSE FEATURE TRACKING ROUTINE WITH ITS APPLICATION IN CRYOSPHERE REMOTE SENSING USING SENTINEL-1 AND LANDSAT-8 DATA

[Lei, Yang](#), California Institute of Technology, United States [Gardner, Alex](#), NASA Jet Propulsion Laboratory, United States [Agram, Piyush](#), NASA Jet Propulsion Laboratory, United States

FR2.R7 - Deep Learning Meets Earth Sciences: From Hybrid Modeling to Explainability Friday, October 2, 07:30 - 09:30 • Room 7

FR2.R7.1: ADVANCING DEEP LEARNING FOR EARTH SCIENCES: FROM HYBRID MODELING TO INTERPRETABILITY

[Camps-Valls, Gustau](#), Universitat de València, Spain [Reichstein, Markus](#), German Aerospace Center (DLR), Germany [Zhu, Xiaoxiang](#), German Aerospace Center (DLR), Germany [Tuia, Devis](#), Wageningen University and Research (WUR), Netherlands

FR2.R7.2: INTERPRETABLE SCENICNESS FROM SENTINEL-2 IMAGERY

[Levering, Alex](#), Wageningen University, Netherlands [Marcos, Diego](#), Wageningen University, Netherlands [Lobry, Sylvain](#), Wageningen University, Netherlands [Tuia, Devis](#), Wageningen University, Netherlands

FR2.R7.3: TOWARDS PHYSICALLY-CONSISTENT, DATA-DRIVEN MODELS OF CONVECTION

[Beucler, Tom](#), University of California, Irvine, United States [Pritchard, Michael](#), University of California, Irvine, United States [Gentine, Pierre](#), Columbia University, United States [Rasp, Stephan](#), Technische Universität München, Germany

FR2.R7.5: INTERPRETABILITY OF RECURRENT NEURAL NETWORKS IN REMOTE SENSING

[Pérez-Suay, Adrián](#), Universitat de València, Spain [Adsuara, Jose E.](#), Universitat de València, Spain [Piles, Maria](#), Universitat de València, Spain [Martínez-Ferrer, Laura](#), Universitat de València, Spain [Díaz, Emiliano](#), Universitat de València, Spain [Moreno-Martínez, Álvaro](#), Universitat de València, Spain [Camps-Valls, Gustau](#), Universitat de València, Spain

FR2.R7.6: MODELING MOUNTAIN SNOWPACK DYNAMICS WITH CGANS: A VALIDATION STUDY

[Manepalli, Ashray](#), terrafuse, inc., United States [Mudigonda, Mayur](#), terrafuse, inc., United States [Albert, Adrian](#), terrafuse, inc., United States

FR2.R7.7: DISCOVERING DIFFERENTIAL EQUATIONS FROM EARTH OBSERVATION DATA

[Adsuara, Jose E.](#), Universitat de València, Spain [Pérez-Suay, Adrián](#), Universitat de València, Spain [Moreno-Martínez, Álvaro](#), Universitat de València, Spain [Camps-Valls, Gustau](#), Universitat de València, Spain [Kraemer, Guido](#), Max Planck Institute for Biogeochemistry, Germany [Reichstein, Markus](#), Max Planck Institute for Biogeochemistry, Germany [Mahecha, Miguel](#), Max Planck Institute for Biogeochemistry, Germany

FR2.R7.8: JOINT SPATIAL AND GRAPH CONVOLUTIONAL NEURAL NETWORKS - A HYBRID MODEL FOR SPATIAL-SPECTRAL GEOSPATIAL IMAGE ANALYSIS

[Foroozandeh Shahraki, Farideh](#), University of Houston, United States [Prasad, Saurabh](#), University of Houston, United States

FR2.R8 - Marine Coastal Processes monitored by SAR

Friday, October 2, 07:30 - 09:30 • Room 8

FR2.R8.1: SAR MONITORING OF COASTAL CHANGES IN INTERTIDAL AREAS

[Gade, Martin](#), Universität Hamburg, Germany

FR2.R8.2: RETRIEVAL OF SEA SURFACE WIND SPEED BY SPACEBORNE SAR BASED ON MACHINE LEARNING

[Li, Xiao-Ming](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China

FR2.R8.3: INVESTIGATION OF TROPICAL CYCLONE WIND ASYMMETRY FROM CROSS-POLARIZATION SAR IMAGERY

[Yang, Xiaofeng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Wang, Sheng](#), Aerospace Information Research Institute, Chinese Academy of Sciences, China [Ren, Kaijun](#), National University of Defense Technology, China

FR2.R8.4: MONITORING HARSH COASTAL ENVIRONMENTS USING POLARIMETRIC SAR DATA: THE CASE OF SOLWAY FIRTH WETLANDS

[Nunziata, Ferdinando](#), Università degli Studi di Napoli Parthenope, Italy [Ferrentino, Emanuele](#), Università degli Studi di Napoli Parthenope, Italy [Marino, Armando](#), University of Stirling, United Kingdom [Buono, Andrea](#), Università degli Studi di Napoli Parthenope, Italy [Migliaccio, Maurizio](#), Università degli Studi di Napoli Parthenope, Italy

FR2.R8.5: IMPACT OF INTENSE AQUACULTURE ON COASTAL ENVIRONMENTS SEEN BY SAR

[Chatziantoniou, Andromachi](#), University of the Aegean, Greece [Topouzelis, Konstantinos](#), University of the Aegean, Greece

FR2.R8.6: COMPARISON OF RADARSAT-2 AND RCM SIMULATED DATA FOR THE

DETECTION OF ACTIONABLE OCEAN SURFACE OIL

[Staples, Gordon](#), MDA, Canada [Garcia, Oscar](#), WaterMapping, United States

FR2.R9 - Classification Methods

Friday, October 2, 07:30 - 09:30 • Room 9

FR2.R9.1: POTENTIAL OF LAND COVER CLASSIFICATION BASED ON GF-1 AND GF-3 DATA

[Yu, Ruikun](#), Shandong Jianzhu University, China [Wang, Guanghui](#), Ministry of Natural Resource, China [Shi, Tongguang](#), Shandong Jianzhu University, China [Zhang, Wei](#), Ministry of Natural Resource, China [Lu, Chen](#), Ministry of Natural Resource, China [Zhang, Tao](#), Ministry of Natural Resource, China

FR2.R9.2: CLASSIFICATION OF WINTER LAND COVER IN NEW ZEALAND HILL COUNTRY FOR RISKY PRACTICE IDENTIFICATION

[Amies, Alexander](#), Manaaki Whenua – Landcare Research, New Zealand [Belliss, Stella](#), Manaaki Whenua – Landcare Research, New Zealand [North, Heather](#), Manaaki Whenua – Landcare Research, New Zealand [Pairman, David](#), Manaaki Whenua – Landcare Research, New Zealand [Dymond, John](#), Manaaki Whenua – Landcare Research, New Zealand [Schindler, Jan](#), Manaaki Whenua – Landcare Research, New Zealand [Shepherd, James](#), Manaaki Whenua – Landcare Research, New Zealand [Drewry, John](#), Manaaki Whenua – Landcare Research, New Zealand

FR2.R9.3: SEMI-SUPERVISED LAND COVER CLASSIFICATION USING PI-SAR2 OBSERVATION DATA

[Arima, Yuya](#), National Institute of Information and Communications Technology, Japan [Kojima, Shoichiro](#), National Institute of Information and Communications Technology, Japan [Uemoto, Jyunpei](#), National Institute of Information and Communications Technology, Japan [Konno, Tomohiko](#), National Institute of Information and Communications Technology, Japan

FR2.R9.4: HIGHLY CONTAMINATED WORK MODE IDENTIFICATION OF PHASED ARRAY RADAR USING DEEP LEARNING METHOD

[Hui, Xiaolong](#), Key Laboratory of Electronic Information Countermeasure and Simulation Technology Ministry of Education, School of Electronic Engineering, Xidian University, China [Wu, Bin](#), Key Laboratory of Electronic Information Countermeasure and Simulation Technology Ministry of Education, School of Electronic Engineering, Xidian University, China [Li, Peng](#), Key Laboratory of Electronic Information Countermeasure and Simulation Technology Ministry of Education, School of Electronic Engineering, Xidian University, China [Hou, Chao](#), Key Laboratory of Electronic Information Countermeasure and Simulation Technology Ministry of Education, School of Electronic Engineering, Xidian University, China [Wang, Zhao](#), Key Laboratory of Electronic Information Countermeasure and Simulation Technology Ministry of Education, School of Electronic Engineering, Xidian University, China

FR2.R9.5: KERNEL ROTATIONAL NETWORK FOR SYNTHETIC APERTURE RADAR TARGET RECOGNITION

[Zhou, Yuanyuan](#), University of Electronic Science and Technology of China, China [Hu, Yao](#), University of Electronic Science and Technology of China, China [Wang, Chen](#), University of Electronic Science and Technology of China, China [Wang, Mou](#), University of Electronic Science and Technology of China, China [Shi, Jun](#), University of Electronic Science and Technology of China, China [Wei, Shunjun](#), University of Electronic Science and Technology of China, China

FR2.R9.6: EXTRACTION OF POWER LINES AND PYLONS FROM LIDAR POINT CLOUDS USING A GCN-BASED METHOD

[Li, Wen](#), Xiamen University, China [Zhang, Ziyue](#), University of Nottingham Ningbo China, China [Luo, Zhipeng](#), Xiamen University, China [Xiao, Zhenlong](#), Xiamen University, China [Wang, Cheng](#), Xiamen University, China [Li, Jonathan](#), University of Waterloo, Canada

FR2.R9.7: A BOUNDARY-ENHANCED SUPERVOXEL METHOD FOR 3D POINT CLOUDS

[Sha, Zhengchuan](#), Xiamen University, China [Zhu, Qing](#), Xiamen University, China [Chen, Yiping](#), Xiamen University, China [Wang, Cheng](#), Xiamen University, China [Nurunnabi, Abdul](#), University of Luxembourg, Luxembourg [Li, Jonathan](#), Xiamen University, Luxembourg

FR2.R9.8: MAPPING THE LAND DEVELOPMENT PROCESSES USING DATA TRANSFORMATION AND CLUSTERING METHODS

[Pourmohammadi, Pariya](#), West Virginia University, United States [Adjeroh, Donald](#), West Virginia University, United States [Strager, Michael](#), West Virginia University, United States

FR2.R9.9: KERNEL LOCAL SAMPLE DIRECTIONAL DISCRIMINANT EMBEDDING FOR SAR AUTOMATIC TARGET RECOGNITION

[Liu, Xian](#), University of Electronic Science and Technology of China, China [Pei, Jifang](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

FR2.R9.10: RADAR SIGNAL INTRA-PULSE MODULATION RECOGNITION BASED ON CONTOUR EXTRACTION

[Yu, Zhengyang](#), Xidian University, China [Tang, Jianlong](#), Xidian University, China

FR2.R9.11: TREE SPECIES CLASSIFICATION BASED ON AIRBORNE LIDAR AND HYPERSPECTRAL DATA

[Lu, Xukun](#), China Academy of Electronics and Information Technology, China [Liu, Gang](#), China Academy of Electronics and Information Technology, China [Ning, Silan](#), University of Electronic Science and Technology of China, China [Su, Zhonghua](#), University of Electronic Science and Technology of China, China [He, Ze](#), University of Electronic Science and Technology of China, China

FR2.R10 - Topography, Geology and Geomorphology II Friday, October 2, 07:30 - 09:30 • Room 10

FR2.R10.1: MICROWAVE THERMAL EMISSION FEATURES OF MARE TRANQUILLITATIS AND MARE SERENITATIS INDICATED BY CE2 CELMS DATA

[Meng, Zhiguo](#), Jilin University, China [Lei, Jietao](#), Jilin University, China [Chen, Shengbo](#), Jilin University, China [Yang, Changbao](#), Jilin University, China [Yue, Zongyu](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Zhang, Yubo](#), Jilin University, China

FR2.R10.2: A QUANTITATIVE ANALYSIS ON DIFFERENT CARBONATE INDICATORS BASED ON SPACEBORNE DATA IN A CONTROLLED KARST AREA

[Muller, Marianne](#), Unisinos University, Brazil [Sales, Vinicius](#), Unisinos University, Brazil [Zanotta, Daniel](#), Unisinos University, Brazil [Marques Junior, Ademir](#), Unisinos University, Brazil [Guimarães, Tainá](#), Unisinos University, Brazil [Bachi, Leonardo](#), Unisinos University, Brazil [Souza, Eniuce](#), Unisinos University, Brazil [Brum, Diego](#), Unisinos University, Brazil [Gonzaga Junior, Luiz](#), Unisinos University, Brazil [Veronez, Mauricio](#), Unisinos University, Brazil [Cazarin, Caroline](#), CENPES/PETROBRÁS, Brazil

FR2.R10.3: RISK INVESTIGATION OF LANDSLIDE HAZARD AND DISASTER EMERGENCY BASED ON MULTI-PLATFORMS REMOTE SENSING TECHNIQUES

[Jiang, Wenliang](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Jiao, Qisong](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Luo, Yi](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Li, Yongsheng](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Li, Qiang](#), Institute of Crustal Dynamics, China Earthquake Administration, China [Li, Bingquan](#), Institute of Crustal Dynamics, China Earthquake Administration, China

FR2.R10.4: SURFICIAL IRON MINERAL POTENTIAL MAPPING FROM ASTER DATA IN MALMBERGET AND ADJOINING AREA IN NORRBOTTEN COUNTY SWEDEN

[Pal, Mahendra Kumar](#), Luleå University of Technology, Sweden [Rasmussen, Thorkild Maack](#), Luleå University of Technology, Sweden [Abdolmaleki, Mehdi](#), Luleå University of Technology, Sweden

FR2.R10.5: EVALUATION OF TEMPERATURE IN A SELF-BURNING COAL WASTE PILE CONSIDERING UAV DATA AND IN SITU MEASUREMENTS

[Teodoro, Ana](#), University of Porto, Institute of Earth Sciences, Portugal [Fernandes, João](#), University of Porto, Institute of Earth Sciences, Portugal [Santos, Patricia](#), University of Porto, Institute of Earth Sciences, Portugal [Duarte, Lia](#), University of Porto, Institute of Earth

Sciences, Portugal [Flores, Deolinda](#), University of Porto, Institute of Earth Sciences, Portugal

[FR2.R10.6: LOCAL VALIDATION AND COMPARISON OF GLOBAL DIGITAL ELEVATION MODELS USING A LARGE ASSEMBLY OF GNSS GROUND MEASUREMENTS](#)

[Baade, Jussi](#), Friedrich Schiller University Jena, Germany [Schmullius, Christiane](#), Friedrich Schiller University Jena, Germany

[FR2.R10.7: MULTI-SCALE APPROACH USING REMOTE SENSING TECHNIQUES FOR LITHIUM PEGMATITE EXPLORATION: FIRST RESULTS](#)

[Cardoso-Fernandes, Joana](#), University of Porto, Portugal [Teodoro, Ana Cláudia](#), University of Porto, Portugal [Lima, Alexandre](#), University of Porto, Portugal [Mielke, Christian](#), German Research Center for Geosciences, Germany [Körting, Friederike](#), German Research Center for Geosciences, Germany [Roda-Robles, Encarnación](#), Universidad del País Vasco, Spain [Cauzid, Jean](#), Université de Lorraine, France

[FR2.R10.8: VOLUME MEASUREMENT OF COASTAL BEDROCK EROSION USING UAV AND TLS](#)

[Hayakawa, Yuichi](#), Hokkaido University, Japan [Obanawa, Hiroyuki](#), National Agriculture and Food Research Organization, Japan

[FR2.R10.9: DATA IMBALANCE IN LANDSLIDE SUSCEPTIBILITY ZONATION: A CASE STUDY OF MANDAKINI RIVER BASIN, UTTARAKHAND, INDIA](#)

[Gupta, Sharad Kumar](#), Indian Institute of Technology Mandi, India [Shukla, Dericks P.](#), Indian Institute of Technology Mandi, India

[FR2.R10.10: IDENTIFICATION OF LANDSLIDE SUSCEPTIBLE AREAS FOR THE PROPER SETTLEMENT PLANNING IN THE KALI GANDAKI ROAD CORRIDOR, NEPAL](#)

[Chen, Feiyu](#), Sichuan University, China [Raj Adhikari, Basanta](#), Sichuan University, China [Tian, Bingwei](#), Sichuan University, China

[FR2.R10.11: LARGE SCALE ASSESSMENT OF FREE GLOBAL DEMS THROUGH THE GOOGLE EARTH ENGINE PLATFORM](#)

[Ravanelli, Roberta](#), Sapienza University of Rome, Italy [Nascetti, Andrea](#), KTH Royal Institute of Technology, Italy [Crespi, Mattia](#), Sapienza University of Rome, Italy

[FR2.R10.12: A GLOBAL ARCHIVE OF DINSAR CO-SEISMIC DEFORMATION MAPS FROM SENTINEL-1 DATA](#)

[Monterroso, Fernando](#), IREA-CNR, Italy [Ali, Zeeshan](#), University of Naples "Parthenope", Italy [Bonano, Manuela](#), IREA-CNR, Italy [De Luca, Claudio](#), IREA-CNR, Italy [De Novellis, Vincenzo](#), IREA-CNR, Italy [Lanari, Riccardo](#), IREA-CNR, Italy [Manunta, Michele](#), IREA-CNR, Italy [Manzo, Mariarosaria](#), IREA-CNR, Italy [Onorato, Giovanni](#), IREA-CNR, Italy [Valerio, Emanuela](#), IREA-CNR, Italy [Zinno, Ivana](#), IREA-CNR, Italy [Casu, Francesco](#), IREA-CNR, Italy

FR2.R11 - Remote Sensing for Crop Parameters III Friday, October 2, 07:30 - 09:30 • Room 11

[FR2.R11.1: CALIBRATION OF A SVAT MODEL IN THE CENTRAL ZONE OF MEXICO WITH IN-SITU DATA OVER A CORN FIELD REGION](#)

[Huerta Batiz, Héctor Ernesto](#), Instituto Politécnico Nacional, Mexico [Constantino Recillas, Daniel Enrique](#), Instituto Politécnico Nacional, Mexico [Monsiváis Huertero, Alejandro](#), Instituto Politécnico Nacional, Mexico [Torres Gómez, Aura Citlalli](#), Instituto de Geografía y Geomática Ing. Jorge L. Tamayo, Mexico [Judge, Jasmeet](#), Center of Remote Sensing Dep. of Agric. and Biol. Eng, Mexico

[FR2.R11.2: IMPROVING THE RICE YIELD ESTIMATION USING SMOS AND CYGNSS GNSS-R DATA](#)

[Zhan, Qian](#), China University of Geosciences (Beijing), China [Vall-Ilossera, Mercè](#), Universitat Politècnica de Catalunya, Spain [Pablos, Miriam](#), Institute of Marine Sciences (ICM), Spain [Camps, Adriano](#), Universitat Politècnica de Catalunya, Spain [Portal, Gerard](#), Universitat Politècnica de Catalunya, Spain [Chaparro, David](#), Universitat Politècnica de Catalunya, Spain

[FR2.R11.3: EMPIRICAL COMBINATION OF LANDSAT 7 AND 8 IMAGERY TO DETECT THE PHENOLOGICAL CHANGES IN RAINFED CROPLAND VEGETATION](#)

[Shen, Jianxiu](#), Murdoch University, Australia [Evans, Fiona H.](#), Murdoch University, Australia

FR2.R11.4: WINTER WHEAT PHENOLOGY EXTRACTION BASED ON DENSE TIME SERIES OF SENYINEL-1A DATA

[Qiu, Lin](#), China University of Petroleum (East China), China [Sun, Genyun](#), China University of Petroleum (East China), China [Zhang, Aizhu](#), China University of Petroleum (East China), China [Yao, Yanjuan](#), Ministry of Environmental protection of China, China

FR2.R11.5: PREDICTION OF GRAIN PROTEIN CONTENT OF WINTER WHEAT USING UAV BASED HYPERSPECTRAL DATA

[Yang, Sigi](#), Peking University, China [Wu, Haobo](#), Peking University, China [Hu, Ling](#), Peking University, China [Fan, Wenjie](#), Peking University, China [Ren, Huazhong](#), Peking University, China

FR2.R11.6: ESTIMATING CHLOROPHYLL CONTENT OF RICE BASED ON UAV-BASED HYPERSPECTRAL IMAGERY AND CONTINUOUS WAVELET TRANSFORM

[An, Gangqiang](#), University of Electronic Science and Technology of China, China [Xing, Minfeng](#), University of Electronic Science and Technology of China, China [Liao, Chunhua](#), Western University, Canada [He, Binbin](#), University of Electronic Science and Technology of China, China

FR2.R11.7: SENTINEL-2 AND PLANETSCOPE DATA FUSION INTO DAILY 3 M IMAGES FOR LEAF AREA INDEX MONITORING

[Sadeh, Yuval](#), Monash University, Australia [Zhu, Xuan](#), Monash University, Australia [Dunkerley, David](#), Monash University, Australia [Walker, Jeffrey P.](#), Monash University, Australia [Zhang, Yuxi](#), Monash University, Australia [Rozenstein, Offer](#), Volcani Center, Israel [Manivasagam, V.S.](#), Volcani Center, Israel [Chenu, Karine](#), University of Queensland, Australia

FR2.R11.8: TOWARD MATURITY ASSESSMENT OF SNAP BEAN CROPS: A BEST-CASE GREENHOUSE SCENARIO

[Hassanzadeh, Amirhossein](#), Rochester Institute of Technology, United States [Murphy, Sean](#), Cornell University, United States [Pethybridge, Sarah](#), Cornell University, United States [van Aardt, Jan](#), Rochester Institute of Technology, United States [Zhang, Fei](#), Rochester Institute of Technology, United States

FR2.R11.9: IMPROVED DROUGHT MONITORING METHOD BASED ON MULTISOURCE REMOTE SENSING DATA

[Wang, Zhengdong](#), University of Chinese Academy of Sciences, China [Guo, Peng](#), Shandong Agricultural University, China [Wan, Hong](#), Shandong Agricultural University, China

FR2.R11.10: LEAF COUNTING IN RICE (ORYZA SATIVA L.) USING OBJECT DETECTION: A DEEP LEARNING APPROACH

[Kumar Vishal, Mukesh](#), Indian Institute of Technology Bombay, India [Banerjee, Biplab](#), Indian Institute of Technology Bombay, India [Saluja, Rohit](#), Indian Institute of Technology Bombay, India [Raju, Dhandapani](#), ICAR-IARI, India [Viswanathan, Chinnusamy](#), ICAR-IARI, India [Kumar, Sudhir](#), ICAR-IARI, India [Sahoo, Rabi Narayan](#), ICAR-IARI, India [Adinarayana, Jagarlapudi](#), Indian Institute of Technology Bombay, India

FR2.R11.11: MARKOV CHAIN MONTE CARLO AND FOUR-DIMENSIONAL VARIATIONAL APPROACH BASED WINTER WHEAT YIELD ESTIMATION

[Huang, Hai](#), China Agricultural University, China [Huang, Jianxi Huang](#), China Agricultural University, China [Wu, Yantong](#), University of Electronic Science and Technology of China,

China

FR2.R12 - Target Detection I

Friday, October 2, 07:30 - 09:30 • Room 12

FR2.R12.1: AN EFFICIENT COHERENT INTEGRATION APPROACH FOR BISTATIC SAR MOVING TARGET DETECTION AND PARAMETER ESTIMATION BASED ON 2-D DERAMP PROCESSING

[Liu, Zhutian](#), University of Electronic Science and Technology of China, China [Li, Zhongyu](#), University of Electronic Science and Technology of China, China [Sun, Zhichao](#), University of Electronic Science and Technology of China, China [Wu, Junjie](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

FR2.R12.2: A WEAK MOVING POINT TARGET DETECTION METHOD BASED ON HIGH

FRAME RATE SAR IMAGE SEQUENCES AND MACHINE LEARNING

[Zhao, Chen](#), Beihang University, China [Wang, Pengbo](#), Beihang University, China [Chen, Jie](#), Beihang University, China [Yang, Wei](#), Beihang University, China

FR2.R12.3: REMOTELY SENSED METHOD FOR DETECTION OF SPATIAL DISTRIBUTION PATTERN OF DRYLAND PLANTS IN WATER LIMITED ECOSYSTEM

[Hoshino, Buho](#), Rakuno Gakuen University, Japan [Tian, Ying](#), Rakuno Gakuen University, Japan [Shima, Keita](#), Rakuno Gakuen University, Japan [Riga, Su](#), Rakuno Gakuen University, Japan [Enkhtuvshin, Zoljarga](#), Mongolian Hydrological, Meteorological and Environmental Center of Sainshand, Japan [McCarthy, Christopher](#), University of California, San Diego, Japan [Purevtseren, Myagmartseren](#), National University of Mongolia, Japan

FR2.R12.4: SHADOW DETECTION IN SAR IMAGES: AN OTSU- AND CFAR-BASED METHOD

[Li, Haixiang](#), University of Electronic Science and Technology of China, China [Yu, Xuelian](#), University of Electronic Science and Technology of China, China [Sun, Xindong](#), University of Electronic Science and Technology of China, China [Tian, Jinchuan](#), University of Electronic Science and Technology of China, China [Wang, Xuegang](#), University of Electronic Science and Technology of China, China

FR2.R12.5: GO DECOMPOSITION (GODEC) APPROACH TO FINDING LOW RANK AND SPARSITY MATRICES FOR HYPERSPECTRAL TARGET DETECTION

[Cao, Hongju](#), Dalian Maritime University, China [Shang, Xiaodi](#), Dalian Maritime University, China [Wang, Yulei](#), Dalian Maritime University, China [Song, Meiping](#), Dalian Maritime University, China [Chen, Shuhan](#), Zhejiang University, China [Chang, Chein-I](#), Dalian Maritime University, China

FR2.R12.6: A TWO-STEP SHIP TARGET DETECTION METHOD IN HIGH-RESOLUTION SAR IMAGE BASED ON COARSE-TO-FINE MECHANISM

[Sun, Kun](#), Xidian University, China [Li, Yuanyuan](#), Shanghai Radio Equipment Research Institution, China [Li, Cong](#), Xidian University, China [Liang, Yi](#), Xidian University, China [Xing, Mengdao](#), Xidian University, China

FR2.R12.7: A LONG-TIME INTEGRATION METHOD FOR GNSS-BASED PASSIVE RADAR DETECTION OF MARINE TARGET WITH MULTI-STAGE MOTIONS

[Huang, Chuan](#), University of Electronic Science and Technology of China, China [Li, Zhongyu](#), University of Electronic Science and Technology of China, China [Wu, Junjie](#), University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Yang, Haiguang](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

FR2.R12.8: EXPERIMENTAL RESULTS FOR GNSS-R BASED MOVING TARGET INDICATION

[Zhou, Xinkai](#), Beihang University, China [Wang, PengBo](#), Beihang University, China [Chen, Jie](#), Beihang University, China [Zeng, HongCheng](#), Beihang University, China [Pei, ZengCan](#), Beihang University, China

FR2.R12.9: SUB-PIXEL MAPPING METHOD BASED ON K-SVD DICTIONARY LEARNING AND TOTAL VARIATION MINIMIZATION

[Msellmi, Bouthayna](#), Univ. Manouba, RIADI GDL-lab, Tunisia [Picone, Daniele](#), Univ. Grenoble Alpes, CNRS, Grenoble INP, GIPSA-lab, Tunisia [Ben Rabah, Zouhaier](#), RIADI GDL-lab, Manouba, Tunisia [Dalla mura, Mauro](#), INP GRENOBLE, Tunisia [Farah, Imed Riadh](#), RIADI GDL-lab, Manouba, Tunisia

FR2.R12.10: ESTIMATION METHOD OF MICRO-DOPPLER PARAMETERS BASED ON CONCENTRATION OF TIME-FREQUENCY ROTATION DOMAIN

[Chen, Song](#), University of Chinese Academy of Sciences, China [Liangjiang, Zhou](#), University of Chinese Academy of Sciences, China [Wei, Liang](#), University of Chinese Academy of Sciences, China [Dong, Han](#), University of Chinese Academy of Sciences, China [Yirong, Wu](#), University of Chinese Academy of Sciences, China [Chibiao, Ding](#), University of Chinese Academy of Sciences, China

FR2.R12.11: FUSARIUM WILT INSPECTION FOR PHALAENOPSIS USING UNIFORM

INTERVAL HYPERSPECTRAL BAND SELECTION TECHNIQUES

[Chen, Bo-Han](#), National Chung Hsing University, Taiwan [Ouyang, Yen-Chieh](#), National Chung Hsing University, Taiwan [Ou-Yang, Mang](#), National Chiao-Tung University, Taiwan [Guo, Horng-Yuh](#), Taiwan Agriculture Research Institute, Taiwan [Liu, Tsang-Sen](#), Taiwan Agriculture Research Institute, Taiwan [Chen, Hsian-Min](#), Taichung Veterans General Hospital, Taiwan [Wu, Chao-Cheng](#), National Taipei University of Technology, Taiwan [Wen, Chia-Hsien](#), Providence University, Taiwan [Chang, Chgein-I](#), UMBC, United States [Shih, Min-Shao](#), National Chung Hsing University, Taiwan

**FR2.R13 - Microwave Radiometer
Instrumentation and Data Analysis**

Friday, October 2, 07:30 - 09:30 • Room 13

**FR2.R13.1: TECHNOLOGY DEVELOPMENTS FOR AN ADVANCED L-BAND
RADIOMETER MISSION**

[Martin-Neira, Manuel](#), European Space Agency, Netherlands [Suess, Martin](#), European Space Agency, Netherlands [Karafolas, Nikos](#), European Space Agency, Netherlands [Piironen, Petri](#), European Space Agency, Netherlands [Deborgies, François](#), European Space Agency, Netherlands [Catalan, Albert](#), TRYO Aeospace, Spain [Vilaseca, Roger](#), TRYO Aeospace, Spain [Montero, José](#), TRYO Aeospace, Spain [Puertolas, Montserrat](#), TRYO Aeospace, Spain [Outumuro, Diego](#), TRYO Aeospace, Spain [Corbella, Ignasi](#), Polytechnic University of Catalonia, Spain [Durán, Israel](#), Polytechnic University of Catalonia, Spain [Duffo, Nuria](#), Polytechnic University of Catalonia, Spain [Materni, Roberto](#), Saphyrion Sagl, Switzerland [Mengual, Teresa](#), DAS Photonics, Spain [Piqueras, Miguel Angel](#), DAS Photonics, Spain [Olea, Ana](#), Airbus Defence and Space, Spain [Solana, Andrés](#), Airbus Defence and Space, Spain [Closa, Josep](#), Airbus Defence and Space, Spain [Zurita, Albert](#), Airbus Defence and Space, Spain [Ramírez, Juan Ignacio](#), Airbus Defence and Space, Spain [Breinbjerg, Olav](#), Technical University of Denmark, Denmark [Bjørstorp, Jeppe Majlund](#), Technical University of Denmark, Denmark [Kaslis, Kyriakos](#), Technical University of Denmark, Denmark [Kristensen, Steen S](#), Technical University of Denmark, Denmark [Oliva, Roger](#), Zenithal Blue Technologies, Spain [Onrubia, Raúl](#), Zenithal Blue Technologies, Spain [Camps, Adriano](#), MITICS, Spain [Querol, Jorge](#), MITICS, Spain

**FR2.R13.2: A WAVENUMBER DOMAIN IMAGING ALGORITHM FOR SYNTHETIC
APERTURE INTERFEROMETRIC RADIOMETRY IN NEAR-FIELD**

[Fu, Peng](#), Huazhong University of Science and Technology, China [Hu, Fei](#), Huazhong University of Science and Technology, China [Hu, Hao](#), Huazhong University of Science and Technology, China [Zheng, Tao](#), Huazhong University of Science and Technology, China

FR2.R13.3: A NOVEL IF RECEIVER STRUCTURE IN HYPERSPECTRAL RADIOMETER

[Zhao, Quan](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Tong, Ling](#), School of Automation Engineering, University of Electronic Science and Technology of China, China [Gao, Bo](#), School of Automation Engineering, University of Electronic Science and Technology of China, China

**FR2.R13.4: STUDY ON THE IMPROVEMENT OF THE HYPERSPECTRUM RADIOMETER
DIGITAL INTERMEDIATE FREQUENCY MODULE**

[Liu, Yukai](#), University of Electronic Science and Technology of China, China [Tong, Ling](#), University of Electronic Science and Technology of China, China [Gong, Xun](#), University of Electronic Science and Technology of China, China [Gao, Xinyi](#), University of Electronic Science and Technology of China, China [Wang, Peicheng](#), University of Electronic Science and Technology of China, China [Gao, Bo](#), University of Electronic Science and Technology of China, China

**FR2.R13.5: HIGH SPECTRAL RESOLUTION V-BAND DIGITAL CORRELATING
SPECTROMETER FOR CLIMATE MONITORING**

[Venkitasubramony, Aravind](#), University of Colorado Boulder, United States [Gasiewski, Albin](#), University of Colorado Boulder, United States

**FR2.R13.6: POST-LAUNCH PERFORMANCE ASSESSMENT OF METOP-C ADVANCED
MICROWAVE SOUNDING UNIT-A (AMSU-A) INSTRUMENT NOISE AND ANTENNA
TEMPERATURE DATA**

[Yan, Banghua](#), NOAA Center for Satellite Applications and Research, United States [Chen,](#)

[Junye](#), Global Science and Technology Inc., United States

[FR2.R13.7: A COST-EFFECTIVE PORTABLE L-BAND RADIOMETER FOR DRONE AND GROUND-BASED APPLICATIONS](#)

[Houtz, Derek](#), Swiss Federal Research Institute WSL, Switzerland [Naderpour, Reza](#), Swiss Federal Research Institute WSL, Switzerland [Schwank, Mike](#), Swiss Federal Research Institute WSL, Switzerland

[FR2.R13.8: COPERNICUS IMAGING MICROWAVE RADIOMETER \(CIMR\): SYSTEM ASPECTS AND TECHNOLOGICAL CHALLENGES](#)

[Vanin, Felice M.](#), European Space Agency, Netherlands [Laberinti, Paolo](#), European Space Agency, Netherlands [Donlon, Craig James](#), European Space Agency, Netherlands [Fiorelli, Bendetta](#), European Space Agency, Netherlands [Barat, Itziar](#), European Space Agency, Netherlands [Pinol Sole, Monteserrat](#), European Space Agency, Netherlands [Palladino, Massimo](#), European Space Agency, Netherlands [Eggers, Philippe](#), European Space Agency, Netherlands [Rudolph, Tobias](#), European Space Agency, Netherlands [Galeazzi, Claudio](#), European Space Agency, Netherlands

[FR2.R13.9: SPATIAL RESOLUTION ENHANCEMENT OF RADIOMETER MEASUREMENTS COLLECTED BY THE FUTURE MICROWAVE CIMR MISSION](#)

[Nunziata, Ferdinando](#), Università degli Studi di Napoli Parthenope, Italy [Alparone, Matteo](#), Università degli Studi di Napoli Parthenope, Italy [Camps, Adriano](#), Universitat Politècnica de Catalunya-BarcelonaTech and Institut d'Estudis Espacials de Catalunya, Spain [Zurita, Alberto M.](#), AIRBUS Defence & Space, Space Systems, Spain [Migliaccio, Maurizio](#), Università degli Studi di Napoli Parthenope, Italy

[FR2.R13.10: AN ENHANCED PRODUCT FOR THE FSSCAT MICROWAVE RADIOMETER](#)

[Alparone, Matteo](#), Università degli Studi di Napoli Parthenope, Italy [Camps, Adriano](#), Universitat Politècnica de Catalunya-BarcelonaTech and Institut d'Estudis Espacials de Catalunya, Spain [Nunziata, Ferdinando](#), Università degli Studi di Napoli Parthenope, Italy [Migliaccio, Maurizio](#), Università degli Studi di Napoli Parthenope, Italy

[FR2.R13.11: MECHANICALLY-ACTUATED RECONFIGURABLE REFLECTARRAY \(MARR\) FOR MICROWAVE SINGLE PIXEL IMAGER \(MSPI\)](#)

[Bobak, Justin](#), Naval Research Laboratory, United States [Rudolph, Scott](#), Naval Research Laboratory, United States [Nurnberger, Michael](#), Naval Research Laboratory, United States [Alqadah, Hatim](#), Naval Research Laboratory, United States [Hicks, Brian](#), Naval Research Laboratory, United States [Markowski, Blerta](#), Naval Research Laboratory, United States [Bonanno, David](#), Naval Research Laboratory, United States [Bounds, William](#), Naval Research Laboratory, United States

[FR2.R13.12: IMAGING ALGORITHM AND MEASUREMENT ERROR IMPACT ON RETRIEVALS FROM THE MICROWAVE SINGLE PIXEL IMAGER \(MSPI\)](#)

[Bobak, Justin](#), Naval Research Laboratory, United States [Alqadah, Hatim](#), Naval Research Laboratory, United States [Nurnberger, Michael](#), Naval Research Laboratory, United States [Rudolph, Scott](#), Naval Research Laboratory, United States [Bounds, William](#), Naval Research Laboratory, United States [Himani, Tanish](#), Naval Research Laboratory, United States

FR2.R14 - Remote Sensing for Mineral and Oil & Gas Exploration and Production

Friday, October 2, 07:30 - 09:30 • Room 14

[FR2.R14.1: IMAGING SPECTROSCOPY APPLIED TO MINERAL MAPPING OVER LARGE AREAS: USGS ANALYSIS OF AVIRIS-CLASSIC DATA COVERING CALIFORNIA AND NEVADA](#)

[Kokaly, Raymond](#), USGS, United States [Swayze, Gregg](#), USGS, United States [Livo, Eric](#), USGS, United States [Hoefen, Todd](#), USGS, United States [Meyer, John](#), Colorado School of Mines, United States

[FR2.R14.3: TOWARDS 4D VIRTUAL OUTCROPS WITH HYPERSPECTRAL IMAGING](#)

[Gloaguen, Richard](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Kirsch, Moritz](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Lorenz, Sandra](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Booyesen, René](#), Helmholtz

Institute Freiberg for Resource Technology, Germany [Zimmermann, Robert](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Ghamisi, Pedram](#), Helmholtz Institute Freiberg for Resource Technology, Germany [Rasti, Behnood](#), Helmholtz Institute Freiberg for Resource Technology, Germany

[FR2.R14.4: USING LONG WAVE INFRARED SPECTROSCOPY TO DETERMINE CHANGES IN THE MAFIC MINERALOGY OF DRILL CORE SAMPLES FROM THE HUMU'ULA GROUNDWATER RESEARCH PROJECT.](#)

[Sheevam, Pooja](#), University of Nevada - Reno, United States [Calvin, Wendy](#), University of Nevada - Reno, United States

[FR2.R14.5: QUANTITATIVE PREDICTIONS OF REE ABUNDANCES IN CARBONATITES USING REFLECTANCE SPECTROSCOPY](#)

[Kopackova, Veronika](#), Czech Geological Survey, Czech Republic [Rapprich, Vladislav](#), Czech Geological Survey, Czech Republic [Magna, Tomas](#), Czech Geological Survey, Czech Republic

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[FR2.R14.8: PETROLEUM HYDROCARBON SWIR- LWIR SPECTRAL SIGNATURES & REMOTE SENSING DETECTION: PROSPECTS AND CONSTRAINTS](#)

[Souza Filho, Carlos](#), University of Campinas, Brazil

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[Torres, Ramon](#), European Space Agency, Netherlands [Davidson, Malcolm](#), European Space Agency, Netherlands [Geudtner, Dirk](#), European Space Agency, Netherlands

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[Dierking, Wolfgang](#), Alfred Wegener Institute, Germany [Davidson, Malcolm](#), European Space Agency (ESA-ESTEC), Netherlands

[FR2.R15.3: ENHANCED LAND COVER AND FLOOD MAPPING AT C- AND L-BAND](#)

[Pierdicca, Nazzareno](#), Sapienza University of Rome, Italy [Chini, Marco](#), Luxembourg Institute of Science and Technology, Luxembourg [Pulvirenti, Luca](#), CIMA Research Foundation, Italy

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[Lanari, Riccardo](#), IREA-CNR, Italy [Ali, Zeeshan](#), IREA-CNR, Università Degli Studi Di Napoli, Parthenope, Italy [Bonano, Manuela](#), IREA-CNR, IMAA-CNR, Italy [Buonanno, Sabatino](#), IREA-CNR, Italy [Casu, Francesco](#), IREA-CNR, Italy [De Luca, Claudio](#), IREA-CNR, Italy [Fusco, Adele](#), IREA-CNR, Italy [Manunta, Michele](#), IREA-CNR, Italy [Manzo, Mariarosaria](#), IREA-CNR, Italy [Onorato, Giovanni](#), IREA-CNR, Italy [Zinno, Ivana](#), IREA-CNR, Italy

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[Mattia, Francesco](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Balenzano, Anna](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Lovergine, Francesco Paolo](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Palmisano, Davide](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Satalino, Giuseppe](#), Consiglio Nazionale delle Ricerche (CNR), Italy [Davidson, Malcolm](#), European Space Agency (ESA), Netherlands

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[Rincon, Rafael](#), NASA, United States [Carter, Lynn](#), NASA, United States [Lu, Daniel](#), NASA, United States [Du Toit, Cornelis](#), NASA, United States [Perrine, Martin](#), NASA, United States [Hollibaugh-Baker, David](#), NASA, United States [Generie, Joseph](#), NASA, United States

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[Gerg, Isaac](#), Pennsylvania State University, United States [Williams, David](#), Centre for Maritime Research and Experimentation, Italy [Monga, Vishal](#), Pennsylvania State University, United States

FR2.R16.2: DEEP LEARNING FOR AUTOMATIC RECOGNITION OF OIL PRODUCTION RELATED OBJECTS BASED ON HIGH-RESOLUTION REMOTE SENSING IMAGERY

[Zhang, Nannan](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Zhao, Hang](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Liu, Yang](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Liu, Song](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Ma, Zhiguo](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Guo, Hongyan](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Dong, Wentong](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Zhou, Hongying](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Sun, Zhongyong](#), Research Institute of Petroleum Exploration & Development, PetroChina, China [Qian, Kaijun](#), Research Institute of Petroleum Exploration & Development, PetroChina, China

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[Ran, Jie](#), Chongqing University of Posts and Telecommunications, China [Yang, Feng](#), Chongqing University of Posts and Telecommunications, China [Gao, Chengqiang](#), Chongqing University of Posts and Telecommunications, China [Zhao, Yue](#), Chongqing University of Posts and Telecommunications, China [Qin, Anyong](#), Chongqing University of Posts and Telecommunications, China

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[Wu, Jiayue](#), Xidian University, China [Wu, Bin](#), Xidian University, China [Niu, Haonan](#), Xidian University, China [Ma, Congcong](#), Xidian University, China [Wang, Zhao](#), Xidian University, China [Li, Peng](#), Xidian University, China

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[Lee, Seung-Jae](#), Korea Aerospace Research Institute (KARI), Korea (South) [Chang, Jae-Young](#), Korea Aerospace Research Institute (KARI), Korea (South) [Lee, Kwang-Jae](#), Korea Aerospace Research Institute (KARI), Korea (South) [Oh, Kwan-Young](#), Korea Aerospace Research Institute (KARI), Korea (South)

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[Cui, Ziteng](#), Shanghai Jiao Tong University, China [Guo, Weiwei](#), Tongji University, China [Zhang, Zenghui](#), Shanghai Jiao Tong University, China [Chen, Huiyuan](#), Shanghai Jiao Tong University, China [Yu, Wenxian](#), Shanghai Jiao Tong University, China

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REMOTE SENSING IMAGES BASED ON CONVOLUTIONAL NEURAL NETWORK

[Li, Jingrun](#), School of Artificial Intelligence and Automation, Huazhong University of Science Technology, China [Tian, Jinwen](#), School of Artificial Intelligence and Automation, Huazhong University of Science Technology, China [Gao, Peng](#), School of Artificial Intelligence and Automation, Huazhong University of Science Technology, China [Li, Linfeng](#), School of Artificial Intelligence and Automation, Huazhong University of Science Technology, China

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[Gleich, Dušan](#), University of Maribor, Slovenia

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[Cui, Chang](#), Beijing Institute of Technology, China [Dong, Xichao](#), Beijing Institute of Technology, China [Hu, Cheng](#), Beijing Institute of Technology, China

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[Zhang, Qiping](#), University of Electronic Science and Technology of China, China [Zhang, Yongchao](#), University of Electronic Science and Technology of China, China [Zhang, Yin](#),

University of Electronic Science and Technology of China, China [Huang, Yulin](#), University of Electronic Science and Technology of China, China [Li, Wenchao](#), University of Electronic Science and Technology of China, China [Yang, Jianyu](#), University of Electronic Science and Technology of China, China

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[Zhang, Kexin](#), Institute of Remote Sensing and Geographic Information System, Peking University, China [Jiao, Jian](#), Institute of Remote Sensing and Geographic Information System, Peking University, China [Zeng, Qiming](#), Institute of Remote Sensing and Geographic Information System, Peking University, China

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[Fang, Hongliang](#), Institute of Geographic Sciences and Natural Resources Research, Chinese

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[He, Yue](#), University of Electronic Science and Technology of China, China [Zhang, Xiaobo](#), Chengdu Institute of Survey & Investigation, China [Shi, Jibao](#), Chengdu Institute of Survey & Investigation, China [Xia, Jun](#), Wuhan University, China [Chen, Kai](#), Chengdu Institute of Survey & Investigation, China [Weng, Tao](#), Chengdu Institute of Survey & Investigation, China [Zheng, Zezhong](#), University of Electronic Science and Technology of China, China

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[Alfergani, Husam](#), Rowan University, United States [Bouaynaya, Nidhal](#), Rowan University, United States [Nazari, Rouzbeh](#), University of Alabama at Birmingham, United States

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[Böckmann, Christine](#), University of Potsdam, Germany [Nakoudi, Konstantina](#), Alfred Wegener Institute for Polar and Marine Research, Germany [Ritter, Christoph](#), Alfred Wegener Institute for Polar and Marine Research, Germany [Herber, Andreas](#), Alfred Wegener Institute for Polar and Marine Research, Germany

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FR2.R19.8: A HIGH-SPATIAL-RESOLUTION AEROSOL RETRIEVAL ALGORITHM FOR SENTINEL-2 IMAGES OVER BRIGHT URBAN SURFACES

[Hou, Lei](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Ma, Cunshi](#), University of Electronic Science and Technology of China, China [Yang, Yue](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science and Technology of China, China [Sun, Yuan](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China [Gu, Xingfa](#), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China

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[Yang, Yue](#), University of Electronic Science and Technology of China, China [Chen, Yunping](#), University of Electronic Science and Technology of China, China [Hou, Lei](#), University of Electronic Science and Technology of China, China [Chen, Yan](#), University of Electronic Science

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[Lee, Kwon-Ho](#), Gangneung-Wonju National University, Korea (South) [Yoo, Jung-Moon](#), Ewha Womans University, Korea (South) [Wong, Man-Ming](#), Hong Kong Polytechnic University, China

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