

2011 IEEE International Geoscience and Remote Sensing Symposium



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IGARSS
 24-29 July, Vancouver, Canada



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ADD

Paper Code: TUP.U.8

Paper Number: 1014

Title: PARTICULATE MATTER ASSOCIATION WITH AIR POLLUTION & ASSASHTMA PREVALENCE IN ALABAMA

Topic: Environmental Applications: Pollution and Contamination

Session: Pollution and Contamination I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Abigail Lartey, Sam Nwaneri

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ADD

Paper Code: MOP.O.6

Paper Number: 1016

Title: MANAGING LAND USE DATA FOR PUBLIC EDUCATION ON TERROR AND EXPLOSIVE PLOTS THAT THREATEN HOMELAND SECURITY IN THE USA

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change IV

Time: Monday, July 25, 17:00 - 18:30

Authors: Frensha Slaughter, Megan Sullivan, Burlin Thompson, Sam Nwaneri

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Paper Code: WEP.F.6

Paper Number: 1020

Title: RELEVANCE OF ENVIRONMENTAL PREPAREDNESS FOR DEVELOPING NATIONS IN AFRICA (A NIGERIAN MODEL OF ENVIRONMENTAL INFORMATION SYSTEM - NEIS)

Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science

Session: GIS Techniques II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Benjamin Uchenna Nwaneri, Stacey Gaines, Jatri Heard, Sam Nwaneri

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Paper Code: FR1.T03.2

Paper Number: 1021

Title: DETECTION OF CHANNEL FREQUENCY ERRORS IN POST-LAUNCH CALIBRATION OF AMSU-A OBSERVATIONS

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Microwave Radiometry Missions and Instrument Performance II

Time: Friday, July 29, 08:20 - 10:00

Authors: Cheng-Zhi Zou, Wenhui Wang

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Paper Code: FR2.T01.1

Paper Number: 1022

Title: DEMONSTRATION OF TARGET VIBRATION ESTIMATION IN SYNTHETIC APERTURE RADAR IMAGERY

ADD **Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR Processing Techniques**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Qi Wang, Matthew Pepin, Ryan Beach, Ralf Dunkel, Tom Atwood, Armin Doerry, Balu Santhanam, Walter Gerstle, Majeed Hayat

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Paper Code: FR3.T10.1**Paper Number:** 1030**Title:** REPRESENTATION OF TSUNAMIS IN GENERALIZED HYPERSPACEADD **Topic:** Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions**Session:** Remote Sensing Data and Policy Decisions**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Frank C Lin, Kingkarn Sookhanaphibarn

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Paper Code: MOP.X.1**Paper Number:** 1033**Title:** FAST AND ACCURATE SHADOW REGION IMAGING ALGORITHM USING RANGE DERIVATIVES OF DOUBLY SCATTERED SIGNALS FOR UWB RADARSADD **Topic:** Sensors and Platforms: Active Microwave**Session:** Active Microwave Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shouhei Kidera, Tetsuo Kirimoto

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Paper Code: TH2.T04.5**Paper Number:** 1041**Title:** ESTIMATING SNOW WATER EQUIVALENT FOR A SNOW-COVERED GROUND REFLECTOR USING GPS MULTIPATH SIGNALSADD **Topic:** Land: Land Ice and Snow**Session:** Active Microwave Remote Sensing of Snow and Ice**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Mark Jacobson

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Paper Code: MOP.L.5**Paper Number:** 1042**Title:** SHAPE CONTEXT BASED OBJECT RECOGNITION AND TRACKING IN STRUCTURED UNDERWATER ENVIRONMENTADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation and Object Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Kyung Min Han, Hyun Taek Choi

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Paper Code: MOP.B.1**Paper Number:** 1043**Title:** VHF RADAR ECHOES FROM LAYERING SCATTER MEDIA AND APPLICATIONS TO LUNAR EXPLORATION AND LANDSLIDES MONITORINGADD **Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Ya-Qiu Jin, Feng Xu

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Paper Code: TUP.X.1**Paper Number:** 1046**Title:** CALIBRATION AND ERROR ANALYSIS OF A KA-BAND FULLY POLARIMETRIC RADIOMETER BUILT WITH WIDEBAND MICROSTRIP CORRELATORADD **Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30

ViewADD **Authors:** Xinbiao Wang, Jing Li, Jingshan Jiang**Paper Code:** TU1.T07.1**Paper Number:** 1047**Title:** GNSS Remote sensing roles in the atmosphere, oceans, hydrology and cryosphere**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Shuanggen Jin, Guiping Feng**View**ADD **Paper Code:** WE3.T07.3**Paper Number:** 1051**Title:** A CONSENSUS CALIBRATION BASED ON TMI AND WINDSAT**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds III**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Thomas Wilheit, Wesley Berg, W. Linwood Jones, Rachael Kroodsmma, Darren Mckague, Christopher Ruf, Matthew Sapiano**View**ADD **Paper Code:** MO3.T09.1**Paper Number:** 1052**Title:** AN AUTOCORRELATION ANALYSIS APPROACH TO DETECTING LAND COVER CHANGE USING HYPER-TEMPORAL TIME-SERIES DATA**Topic:** Invited Sessions: Change Detection and Multitemporal Image Analysis**Session:** Change Detection and Multitemporal Image Analysis I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Waldo Kleynhans, Brian Salmon, Jan C. Olivier, Konrad Wessels, Frans van den Bergh**View**ADD **Paper Code:** TU1.T07.2**Paper Number:** 1056**Title:** GPS Ionospheric mapping and tomography: A case of study in a geomagnetic storm**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Shuanggen Jin, Rui Jin**View**ADD **Paper Code:** TUP.W.7**Paper Number:** 1057**Title:** MODELING PERMAFROST DISTRIBUTION USING REMOTE SENSING-DERIVED VEGETATION DATA IN THE SOURCE REGION OF THE DATONG RIVER IN THE NORTHWESTERN CHINA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jing Li, Yu Sheng, Ji Chen, Xiumin Zhang, Bo Zhang, Jichun Wu, Yuanbing Cao**View**ADD **Paper Code:** TH1.T07.1**Paper Number:** 1058**Title:** NINE YEARS OF ATMOSPHERIC REMOTE SENSING WITH SCIAMACHY - INSTRUMENT PERFORMANCE**Topic:** Atmosphere: Atmospheric Sounding**Session:** Satellite-Based Atmospheric Sounding and Imaging**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Manfred Gottwald, Eckhart Krieg, Günter Lichtenberg, Sander Slijkhuis, Stefan Noël, Klaus Bramstedt, Heinrich Bovensmann, Christian von Savigny, Ralph

Snel, Matthijs Krijger

ViewADD **Paper Code:** TH2.T07.1**Paper Number:** 1060**Title:** NINE YEARS OF ATMOSPHERIC REMOTE SENSING WITH SCIAMACHY - ATMOSPHERIC PARAMETERS AND DATA PRODUCTS**Topic:** Atmosphere: Atmospheric Sounding**Session:** Atmospheric Sensing Techniques I**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Günter Lichtenberg, Manfred Gottwald, Adrian Doicu, Franz Schreier, Sergei Hrechanyy, Klaus Kretschel, Markus Meringer, Michael Hess, Sebastian Gimeno-García, Heinrich Bovensmann, Kai-Uwe Eichmann, Stefan Noël, Christian von Savigny, Andreas Richter, Michael Buchwitz, Alexei Rozanov, John P. Burrows, Ralph Snel, Christophe Lerot, Michel Van Roozendaal, Gijs Tilstra, Thorsten Fehr**View**ADD **Paper Code:** TU2.T10.5**Paper Number:** 1062**Title:** SAR MEASUREMENT OF OCEAN SURFACE WIND AND WAVE FOR OPERATIONAL SHIP ROUTING**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xiao-Ming Li, Susanne Lehner, Thomas Bruns**View**ADD **Paper Code:** TU4.T09.3**Paper Number:** 1063**Title:** AN INTERACTIVE IMAGE MINING TOOL HANDLING GIGAPIXEL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Data Mining and Machine Learning for Remote Sensing II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Lionel Gueguen, Martino Pesaresi, Pierre Soille**View**ADD **Paper Code:** TH4.T01.4**Paper Number:** 1064**Title:** SHIP DETECTION USING X-BAND DUAL-POL SAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR III**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Sébastien Angelliaume, Philippe Durand, Jean-Claude Souyris**View**ADD **Paper Code:** TUP.M.1**Paper Number:** 1065**Title:** INSAR MONITORING OF THE LUSI MUD VOLCANO, EAST JAVA, FROM 2006 TO 2010**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Charlotte Gauchet, Emmanuel Christophe, Aik Song Chia, Tiangang Yin, Soo Chin Liew**View**ADD **Paper Code:** MO3.T09.2**Paper Number:** 1068**Title:** HYPERSPECTRAL CHANGE DETECTION USING IR-MAD AND FEATURE REDUCTION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Change Detection and Multitemporal Image Analysis I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Prashanth Reddy Marpu, Paolo Gamba, Jon Atli Benediktsson**View****Paper Code:** WE2.T02.1**Paper Number:** 1069**Title:** In-Orbit Calibration of the TanDEM-X System

ADD **Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Marco Schwerdt, Jaime Hueso-Gonzalez, Markus Bachmann, Dirk Schrank, Björn Döring, Nuria Tous-Ramon, John Mohan Walter Antony

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Paper Code: WEPO.5**Paper Number:** 1074**Title:** AN INTERACTIVE SATELLITE ALGORITHM DEVELOPMENT AND PRODUCT VERIFICATION SYSTEMADD **Topic:** Atmosphere: Others**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hung-Lung Allen Huang, Mathew Gunshor

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Paper Code: FR1.T08.3**Paper Number:** 1075**Title:** WEIGHTED LAPLACIAN DIFFERENCES BASED MULTISPECTRAL ANISOTROPIC DIFFUSIONADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis III**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Surya Prasath V.B.

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Paper Code: WE1.T10.4**Paper Number:** 1076**Title:** STATUS OF AQUARIUS AND THE AQUARIUS/SAC-D MISSIONADD **Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Salinity**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** David Le Vine, Gary Lagerloef, Sandra Torrusio

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Paper Code: TH3.T01.2**Paper Number:** 1079**Title:** DERIVATION OF SEPARABILITY MEASURES BASED ON CENTRAL COMPLEX GAUSSIAN AND WISHART DISTRIBUTIONSADD **Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Ken Yoong Lee, Timo Bretschneider

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Paper Code: WE2.T02.4**Paper Number:** 1080**Title:** Baseline Calibration in TanDEM-XADD **Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Jaime Hueso-Gonzalez, John Mohan Walter Antony, Gerhard Krieger, Marco Schwerdt

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Paper Code: TH2.T06.1**Paper Number:** 1082**Title:** APPLYING SPECTRAL UNMIXING AND SUPPORT VECTOR MACHINE TO AIRBORNE HYPERSPECTRAL IMAGERY FOR DETECTING GIANT REEDADD **Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Chenghai Yang, John Goolsby, James Everitt, Qian Du

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Paper Code: TU1.T02.1**Paper Number:** 1085

ADD **Title:** FOUR-COMPONENT SCATTERING POWER DECOMPOSITION USING COHERENCY MATRIX**Topic:** Invited Sessions: SAR Polarimetry: Theory and Applications**Session:** SAR Polarimetry: Theory and Applications I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Yoshio Yamaguchi

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Paper Code: FR1.T10.4**Paper Number:** 1091ADD **Title:** LECTURING ON SATELLITE IMAGERY PROCESSING AND GIS BASED ON INTERNET AND OPEN SOURCE SOFTWARE**Topic:** Data Management, Dissemination, Education and Policy: Education and Remote Sensing**Session:** Data Management and Systems**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Fatwa Ramdani

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Paper Code: WEP.M.1**Paper Number:** 1092ADD **Title:** MONITORING FREEZE-UP AND BREAK-UP DATES OF NORTHERN HEMISPHERE BIG LAKES USING PASSIVE MICROWAVE REMOTE SENSING DATA**Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Tao Che, Xin Li, Liyun Dai

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Paper Code: WE1.T09.1**Paper Number:** 1093ADD **Title:** A CONTEXTUAL APPROACH TO BUILDING EXTRACTION COMBINING HIGH-RESOLUTION INSAR AND OPTICAL DATA**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Building Detection and Object Recognition**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Jan Dirk Wegner, Uwe Soergel

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Paper Code: TH3.T03.4**Paper Number:** 1096ADD **Title:** RADIOBRIGHTNESS VALIDATION ON DIFFERENT SPATIAL SCALES DURING THE SMOS VALIDATION CAMPAIGN 2010 IN THE RUR CATCHMENT, GERMANY**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Soil Moisture and Ocean Salinity (SMOS) Mission**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Carsten Montzka, Heye Bogena, Lutz Weihermueller, François Jonard, Marin Dimitrov, Catherine Bouzinac, Juha Kainulainen, Jan Balling, Jan Vanderborght, Harry Vereecken

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Paper Code: WE2.T07.4**Paper Number:** 1102ADD **Title:** Data Products and Services for GPM**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Erich Stocker

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Paper Code: TU1.T09.5**Paper Number:** 1103**Title:** 2011 GRSS DATA FUSION CONTEST: EXPLOITING WORLDVIEW-2 MULTI-ANGULAR ACQUISITIONS

ADD

Topic: Invited Sessions: Data Fusion
Session: Data Fusion
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Fabio Pacifici, Jocelyn Chanussot, Qian Du

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Paper Code: FR1.T09.4 **Paper Number:** 1104
Title: FAST MAP PROJECTION ON CUDA

ADD

Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS and Agro-Geoinformatics Applications
Time: Friday, July 29, 08:20 - 10:00
Authors: Yanwei Zhao, Zhenlin Cheng, Hui Dong, Jinyun Fang, Liang Li

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Paper Code: MOP.K.3 **Paper Number:** 1110
Title: AUTO-REGISTRATION OF SATELLITE IMAGE WITH THE EXISTING VECTOR MAP

ADD

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Image Registration and Change Detection
Time: Monday, July 25, 17:00 - 18:30
Authors: Luping Lu, Yong Zhang

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Paper Code: TU2.T10.3 **Paper Number:** 1111
Title: OROGRAPHICALLY-FORCED COASTAL WIND FIELDS AROUND HOKKAIDO, JAPAN

ADD

Topic: Invited Sessions: SAR applications in oceanography: from research to operation
Session: SAR Applications in Oceanography: From Research to Operation I
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Osamu Isoguchi, Masanobu Shimada

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Paper Code: WEP.R.2 **Paper Number:** 1113
Title: METHOD OF REGISTERING A TIME SEQUENCE OF AERIAL IMAGES AND A DIGITAL MAP USING A SATELLITE IMAGE

ADD

Topic: Environmental Applications: Others
Session: Environmental Applications I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Taku Nakagawasai, Hitoshi Saji

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Paper Code: TU2.T06.5 **Paper Number:** 1114
Title: ESTIMATION OF EARTHQUAKE DAMAGE FROM AERIAL IMAGES BY PROBABILISTIC METHOD

ADD

Topic: Environmental Applications: Urban and Built Environment
Session: Urban Area Monitoring
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Shota Izaka, Hitoshi Saji

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Paper Code: TH1.T03.4 **Paper Number:** 1115
Title: SMOS BRIGHTNESS TEMPERATURE MEASUREMENTS AND END-TO-END CALIBRATION

ADD

Topic: Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers
Session: Interferometric Synthetic Aperture Microwave Radiometers I
Time: Thursday, July 28, 08:20 - 10:00
Authors: Francesc Torres, Ignasi Corbella, Nuria Duffo, Manuel Martín-Neira

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Time: Thursday, July 28, 08:20 - 10:00**Authors:** Ignasi Corbella, Francesc Torres, Nuria Duffo, Manuel Martín-Neira**View****ADD** **Paper Code:** MO3.T02.3**Paper Number:** 1129**Title:** CHARACTERIZATION OF SINGULAR STRUCTURES IN POLARIMETRIC SAR IMAGES BY WAVELET FRAMES**Topic:** Invited Sessions: Advanced Methods for Polarimetric SAR information extraction**Session:** Advanced Methods for Polarimetric SAR Information Extraction I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Gianfranco De Grandi, Pete Bunting, Alexandre Bouvet, Thomas Ainsworth**View****ADD** **Paper Code:** TU1.T07.3**Paper Number:** 1133**Title:** OBSERVING EARTH'S ATMOSPHERE AND CLIMATE WITH GNSS RADIO OCCULTATION**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Ulrich Foelsche, Barbara Scherllin-Pirscher, Andrea K. Steiner, Florian Ladstädter, Gottfried Kirchengast**View****ADD** **Paper Code:** MOP.N.10**Paper Number:** 1134**Title:** DETECTION AND MAPPING OF IRRIGATED FARMLAND IN CANTERBURY, NEW ZEALAND**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** David Pairman, Stella Belliss, Jeromy Cuff, Stephen McNeill**View****ADD** **Paper Code:** TU2.T08.3**Paper Number:** 1142**Title:** NON-LINEAR FULLY-CONSTRAINED SPECTRAL UNMIXING**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Spectral Unmixing of Hyperspectral Data II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Rob Heylen, Paul Scheunders**View****ADD** **Paper Code:** FR4.T05.4**Paper Number:** 1143**Title:** OIL SLICKS DETECTION USING GNSS-R**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Enric Valencia, Adriano Camps, Hyuk Park, Nereida Rodriguez-Alvarez, Xavier Bosch-Lluis, Isaac Ramos-Perez**View****ADD** **Paper Code:** FR4.T05.2**Paper Number:** 1144**Title:** SNOW MONITORING USING GNSS-R TECHNIQUES**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Nereida Rodriguez-Alvarez, Albert Aguiasca, Enric Valencia, Xavier Bosch-Lluis, Isaac Ramos-Perez, Hyuk Park, Adriano Camps, Mercè Vall-Ilossera

[View](#)ADD **Paper Code:** FR2.T01.2**Paper Number:** 1145**Title:** AMBIGUITY SUPPRESSION BY AZIMUTH PHASE CODING IN MULTICHANNEL SPACEBORNE SAR SYSTEMS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR Processing Techniques**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Federica Bordoni, Marwan Younis, Gerhard Krieger[View](#)ADD **Paper Code:** WE1.T06.3**Paper Number:** 1146**Title:** WATER LEVEL MONITORING USING THE INTERFERENCE PATTERN GNSS-R TECHNIQUE**Topic:** Land: Wetlands and Inland Waters**Session:** Coastal and Wetlands III**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Nereida Rodriguez-Alvarez, Xavier Bosch-Lluis, Adriano Camps, Isaac Ramos-Perez, Enric Valencia, Hyuk Park, Mercè Vall-Ilossera[View](#)ADD **Paper Code:** FR1.T07.1**Paper Number:** 1148**Title:** DAILY ESTIMATES OF THE TROPOSPHERIC AEROSOL OPTICAL THICKNESS OVER LAND SURFACE FROM MSG GEOSTATIONARY OBSERVATION**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Dominique Carrer, Jean-Louis Roujean, Olivier Hautecoeur[View](#)ADD **Paper Code:** FR4.T08.1**Paper Number:** 1149**Title:** EXPLORING LIMITS IN HYPERSPECTRAL UNRESOLVED OBJECT DETECTION**Topic:** Invited Sessions: Hyperspectral Detection of Difficult Targets**Session:** Hyperspectral Detection of Difficult Targets**Time:** Friday, July 29, 15:20 - 17:00**Authors:** John Kerekes[View](#)ADD **Paper Code:** TH2.T03.5**Paper Number:** 1151**Title:** FIRST RESULTS OF THE PAU-SA SYNTHETIC APERTURE RADIOMETER**Topic:** Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers**Session:** Interferometric Synthetic Aperture Microwave Radiometers II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Isaac Ramos-Perez, Giuseppe Forte, Xavier Bosch-Lluis, Adriano Camps, Enric Valencia, Nereida Rodriguez-Alvarez, Hyuk Park, Mercè Vall-Ilossera[View](#)ADD **Paper Code:** FR3.T07.4**Paper Number:** 1153**Title:** SEMI-AUTOMATED PENGUIN COUNTING FROM DIGITAL AERIAL PHOTOGRAPHS**Topic:** Environmental Applications: Others**Session:** Environmental Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Stephen McNeill, Kerry Barton, Phil Lyver, David Pairman[View](#)ADD **Paper Code:** TH2.T02.1**Paper Number:** 1154**Title:** MONITORING SOIL MOISTURE TO SUPPORT RISK REDUCTION FOR THE AGRICULTURE SECTOR USING RADARSAT-2**Topic:** Invited Sessions: RADARSAT

Session: RADARSAT II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Heather McNairn, Amine Merzouki, Anna Pacheco**View****ADD** **Paper Code:** WE2.T09.1**Paper Number:** 1155**Title:** HIGH-ACCURACY TERRAIN MODELLING FOR SOIL MAPPING USING ALOS-PRISM IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** DEM and Feature Extraction**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Stephen McNeill, Stella Belliss, David Pairman**View****ADD** **Paper Code:** MOP.O.3**Paper Number:** 1160**Title:** COMBINING POLARIMATRIC PALSAR AND AVNIR-2 FOR LAND COVER CLASSIFICATION**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change IV**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hasi Bagan, Tsuguki Kinoshita, Yoshiki Yamagata**View****ADD** **Paper Code:** TUP.X.7**Paper Number:** 1162**Title:** HARDWARE IMPLEMENTATION OF A WAVELET-BASED RADIO FREQUENCY INTERFERENCE MITIGATION ALGORITHM FOR MICROWAVE RADIOMETERS**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Giuseppe Forte, Jose Miguel Tarongji, Adriano Camps**View****ADD** **Paper Code:** TU3.T10.4**Paper Number:** 1164**Title:** A NEW APPROACH TO SEA SURFACE WIND RETRIEVAL FROM GNSS-R MEASUREMENTS**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Hyuk Park, Enric Valencia, Nereida Rodriguez-Alvarez, Xavier Bosch-Lluis, Isaac Ramos-Perez, Adriano Camps**View****ADD** **Paper Code:** TUP.K.4**Paper Number:** 1165**Title:** Joint Simulation of Bidirectional Reflectance and Backscatter coefficient of Corn Canopy Scene**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hejuan Du, Le Yang, Qinhuo Liu**View****ADD** **Paper Code:** MOP.S.1**Paper Number:** 1169**Title:** SUGARCANE YIELD PENALIZATION INDICATOR ESTIMATED BY AN AGRONOMIC MODEL**Topic:** Land: Others**Session:** Land Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Luciana Miura Sugawara, Bernardo Friedrich Theodor Rudorff

ViewADD **Paper Code:** WEP.K.6**Paper Number:** 1170**Title:** LAND SURFACE EMISSIVITY RETRIEVAL FROM THE MEASUREMENTS OF FENGYUN-2 SATELLITES**Topic:** Land: Others**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Geng-Ming Jiang**View**ADD **Paper Code:** MOP.G.6**Paper Number:** 1172**Title:** COMPARISON OF DUAL AND FULL POLARIMETRIC ENTROPY/ALPHA DECOMPOSITIONS WITH TERRASAR-X, SUITABILITY FOR USE IN CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tishampati Dhar, Doug Gray, Carl Menges**View**ADD **Paper Code:** MOP.C.9**Paper Number:** 1175**Title:** VELOCITY ESTIMATION OF MOVING TARGETS USING SAR**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution and Multi-Channel SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Junfeng Wang, Xingzhao Liu**View**ADD **Paper Code:** FR3.T02.3**Paper Number:** 1176**Title:** P BAND PENETRATION IN TROPICAL AND BOREAL FORESTS: TOMOGRAPHICAL RESULTS**Topic:** Invited Sessions: Advances in the retrieval of forest biomass from P-band SAR data: The BIOMASS mission**Session:** Advances in the Retrieval of Forest Biomass from P-band SAR Data: The BIOMASS Mission**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Stefano Tebaldini, Mauro Mariotti d'Alessandro, Dinh Ho Tong Minh, Fabio Rocca**View**ADD **Paper Code:** TH3.T01.1**Paper Number:** 1179**Title:** MODEL-BASED POLARIMETRIC SAR CALIBRATION METHOD USING FOREST AND SURFACE SCATTERING TARGETS**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Masanobu Shimada**View**ADD **Paper Code:** TH1.T05.1**Paper Number:** 1180**Title:** GENERATION OF 10m RESOLUTION PALSAR AND JERS-SAR MOSAIC AND FOREST/NON-FOREST MAPS FOR FOREST CARBON TRACKING**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing III**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Masanobu Shimada, Osamu Isoguchi, Takeshi Motooka, Tomohiro Shiraiishi, Akira Mukaida, Hayato Okumura, Takahiro Otaki, Takuma Itoh**View****Paper Code:** WEP.O.3**Paper Number:** 1185

ADD

Title: FY-2D RETRIEVED SURFACE TEMPERATURE CHANGE AS A PREDICTOR FOR SANDSTORM FORECASTING OVER NORTHWEST CHINA

Topic: Atmosphere: Weather Prediction and Data Assimilation

Session: Weather Prediction and Data Assimilation II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Hui Han, Ni Guo, Dihua Cai, Jing Wang

View

Paper Code: TU3.T08.1

Paper Number: 1189

Title: BRIDGE EXTRACTION BASED ON CONSTRAINED DELAUNAY TRIANGULATION FOR PANCHROMATIC IMAGE

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Optical Image Processing

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Feng Gao, Lei Hu, Zhaofeng He

ADD

View

Paper Code: FR4.T08.5

Paper Number: 1191

Title: GENERALIZED OPTIMAL KERNEL-BASED ENSEMBLE LEARNING FOR HYPERSPECTRAL CLASSIFICATION PROBLEMS

Topic: Invited Sessions: Hyperspectral Detection of Difficult Targets

Session: Hyperspectral Detection of Difficult Targets

Time: Friday, July 29, 15:20 - 17:00

Authors: Prudhvi Gurram, Heesung Kwon

ADD

View

Paper Code: MOP.C.5

Paper Number: 1196

Title: 3D Reconstruction of Building using Layover in VHR SAR Image Based on Down-sampling

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High Resolution and Multi-Channel SAR

Time: Monday, July 25, 17:00 - 18:30

Authors: Xingyu Fu, Hongjian You, Kun Fu

ADD

View

Paper Code: FR3.T10.2

Paper Number: 1198

Title: AN INTEGRATED HYDROLOGICAL AND WATER MANAGEMENT STUDY OF THE ENTIRE NILE RIVER SYSTEM - LAKE VICTORIA TO NILE DELTA

Topic: Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions

Session: Remote Sensing Data and Policy Decisions

Time: Friday, July 29, 13:20 - 15:00

Authors: Shahid Habib, Benjamin Zaitchik, Clement Alo, Mutlu Ozdogan, Anderson Martha, Fritz Policelli

ADD

View

Paper Code: MOP.Z.8

Paper Number: 1199

Title: THE SIGNAL TO NOISE RATIO ASSESSMENT OF CE-1 IIM DATA

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors

Session: Passive Optical and Hyperspectral Sensors II

Time: Monday, July 25, 17:00 - 18:30

Authors: Tong Shuai, Xia Zhang, Dong Zhao

ADD

View

Paper Code: TUP.G.6

Paper Number: 1202

Title: SAR IMAGE ROAD NETWORK EXTRACTION WITH SCENE CONTEXT PRIMING

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Information Extraction from RADAR and SAR Data

ADD

- View**
ADD
- Time:** Tuesday, July 26, 17:00 - 18:30
Authors: Yongfeng Cao, Huang Tang
- Paper Code:** TUP.E.6 **Paper Number:** 1203
Title: LOW-ALTITUDE HYPERSPECTRAL OBSERVATION OF PADDY USING RADIO-CONTROLLED HELICOPTER
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Hyperspectral Monitoring of the Environment II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yukio Kosugi, Shinji Mukoyama, Yuji Takabayashi, Kuniaki Uto, Kunio Oda, Genya Saito
- View**
ADD
- Paper Code:** MO3.T06.1 **Paper Number:** 1204
Title: PERFORMANCE EVALUATION OF THE FREQUENCY-DOMAIN DORT IMAGING METHOD WITH UWB RADAR FOR A FINITE-SIZED TARGET
Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Systems
Time: Monday, July 25, 13:20 - 15:00
Authors: Takuya Sakamoto, Toru Sato
- View**
ADD
- Paper Code:** MOP.E.9 **Paper Number:** 1208
Title: CHARACTERIZING MULTI-LAYERED VEGETATION WITH DUAL-POLARIMETRIC TERRASAR-X IMAGERY
Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR
Session: Polarimetric SAR Applications
Time: Monday, July 25, 17:00 - 18:30
Authors: Tishampati Dhar, Doug Gray, Carl Menges
- View**
ADD
- Paper Code:** TH2.T08.1 **Paper Number:** 1217
Title: PROCESSING OF CIRCULAR SAR TRAJECTORIES WITH FAST FACTORIZED BACK-PROJECTION
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: SAR Image Processing II
Time: Thursday, July 28, 10:20 - 12:00
Authors: Octavio Ponce, Pau Prats, Marc Rodriguez-Cassola, Rolf Scheiber, Andreas Reigber
- View**
ADD
- Paper Code:** MOP.V.1 **Paper Number:** 1218
Title: A Hardware-in-loop Simulation and Evaluation Approach for Spaceborne Distributed SAR
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: SAR Missions and Instruments I
Time: Monday, July 25, 17:00 - 18:30
Authors: Zihua He, Feng He, Haifeng Huang, Diannong Liang
- View**
ADD
- Paper Code:** MOP.O.11 **Paper Number:** 1220
Title: FRAGMENTATION OF TROPICAL FOREST IN THE TERMINOS LAGOON RESERVE, MEXICO.
Topic: Land: Land Use and Land Cover Change
Session: Land Use and Land Cover Change IV
Time: Monday, July 25, 17:00 - 18:30
Authors: Ernesto Soto Galera
- View**
ADD
- Paper Code:** MOP.U.1 **Paper Number:** 1221
Title: DEVELOPING A NOVEL FULL-POLARIMETRIC GPR TECHNOLOGY

ADD

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Systems, Methods and Applications II
Time: Monday, July 25, 17:00 - 18:30
Authors: Xuan Feng, Wenjing Liang, Cai Liu, Qi Lu, Zheng-Shu Zhou, Yan Zhang, LiLong Zou, Hong-Li Li

View

ADD

Paper Code: TUP.R.5 **Paper Number:** 1222
Title: REMOTE SENSING RETRIEVED OF AIE-SEA HEAT FLUXES IN THE ASIAN AND INDIAN-PACIFIC OCEAN AREA AND ITS ANALYSIS
Topic: Oceans: Others
Session: Oceans I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Jinnian Chen, Tao Zuo, Hongna Wang

View

ADD

Paper Code: FR2.T03.4 **Paper Number:** 1223
Title: QUALITY ASSESSMENT FOR LIDAR POINT CLOUD REGISTRATION USING IN-SITU CONJUGATE FEATURES
Topic: Sensors and Platforms: Lidar Sensors
Session: Lidar Sensors III
Time: Friday, July 29, 10:20 - 12:00
Authors: Jen-Yu Han, Hui-Ping Tserng, Chih-Ting Lin

View

ADD

Paper Code: WEP.O.8 **Paper Number:** 1224
Title: ESTIMATION OF EVAPOTRANSPIRATION BASED ON REMOTE SENSING IN HEIHE RIVER BASIN
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Weather Prediction and Data Assimilation II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Yongmin Yang, Hongbo Su, Renhua Zhang, Yuan Rong

View

ADD

Paper Code: WE3.T08.2 **Paper Number:** 1225
Title: SEGMENTATION AND CLASSIFICATION OF MAN-MADE MARITIME OBJECTS IN TERRASAR-X IMAGES
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Segmentation
Time: Wednesday, July 27, 13:20 - 15:00
Authors: Michael Teutsch, Günter Saur

View

ADD

Paper Code: WEP.P.9 **Paper Number:** 1226
Title: OPTICAL MODELING OF AEROSOL EXTINCTION FOR ENVIRONMENTAL MONITORING IN THE COASTAL ATMOSPHERE SURFACE LAYER
Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling
Session: Aerosols and Atmospheric Chemistry I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Gennadii Kaloshin

View

ADD

Paper Code: WE4.T09.1 **Paper Number:** 1228
Title: Estimation of subpixel temperature over a heterogeneous area using an endmember index based technique
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Parameter Estimation
Time: Wednesday, July 27, 15:20 - 17:00
Authors: Guijun Yang, Wenjiang Huang, Jihua Wang, Chunjiang Zhao

[View](#)ADD **Paper Code:** MOP.X.2**Paper Number:** 1230**Title:** PERFORMANCE SIMULATION OF A SPACEBORNE DUAL-FREQUENCY ROTATING FANBEAM SCATTEROMETER**Topic:** Sensors and Platforms: Active Microwave**Session:** Active Microwave Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Wenming Lin, Xiaolong Dong, Di Zhu[View](#)ADD **Paper Code:** MOP.W.1**Paper Number:** 1233**Title:** CONCEPT ON AIRSHIP-BORNED LINEAR ARRAY 3-D IMAGING SAR**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jun Shi, Xiaoling Zhang, Jianyu Yang, Gao Xiang[View](#)ADD **Paper Code:** WEP.C.1**Paper Number:** 1238**Title:** Neural network based approximate spectral clustering for remote sensing images**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Kadim Taşdemir[View](#)ADD **Paper Code:** MO4.T05.1**Paper Number:** 1239**Title:** LAND COVER IDENTIFICATION FOR FINDING HAZELNUT FIELDS USING WORLDVIEW-2 IMAGERY**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Kadim Taşdemir, Selçuk Reis[View](#)ADD **Paper Code:** WEP.N.10**Paper Number:** 1240**Title:** POLARIMETRIC EXTRACTION TECHNIQUE OF ATMOSPHERIC TARGETS BASED ON DOUBLE SLDR AND MORPHOLOGY**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Mi He, Yongjian Nian, Xuesong Wang, Yongzhen Li, Shunping Xiao[View](#)ADD **Paper Code:** TU1.T08.4**Paper Number:** 1243**Title:** SIMPLEX VOLUME ANALYSIS BASED ON TRIANGULAR FACTORIZATION: A FRAMEWORK FOR HYPERSPECTRAL UNMIXING**Topic:** Invited Sessions: Spectral Unmixing of Hyperspectral Data**Session:** Spectral Unmixing of Hyperspectral Data I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Wei Xia, Bin Wang, Liming Zhang, Qiyong Lu[View](#)ADD **Paper Code:** TH1.T01.4**Paper Number:** 1244**Title:** PERFORMANCE INVESTIGATION ON THE HIGH-RESOLUTION WIDE-SWATH SAR SYSTEM OPERATING IN STRIPMAP QUAD-POL AND ULTRA-WIDE SCANSAR MODE**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High and Low Resolution SAR / InSAR

- View**
ADD
- Time:** Thursday, July 28, 08:20 - 10:00
Authors: Federica Bordoni, Marwan Younis, Gerhard Krieger
- Paper Code:** TU1.T06.4 **Paper Number:** 1245
Title: DETECTION AND CLASSIFICATION OF BURIED RADIOACTIVE-METAL OBJECTS USING WIDEBAND EMI DATA
Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Methods
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Anish Turlapaty, Qian Du, Nicolas Younan
- View**
ADD
- Paper Code:** TH2.T10.5 **Paper Number:** 1246
Title: RETRIEVING OCEAN SURFACE WIND SPEEDS FROM THE NON-SPINNING QUIKSCAT SCATTEROMETER
Topic: Oceans: Ocean Surface Winds and Currents
Session: Spacebased Observation of Ocean Surface Wind and Stress
Time: Thursday, July 28, 10:20 - 12:00
Authors: Bryan Stiles, Scott Dunbar, Alexandra Chau
- View**
ADD
- Paper Code:** TUP.T.1 **Paper Number:** 1250
Title: INTEGRATION OF MULTISOURCE DATA FOR CHLOROPHYLL-A MONITORING IN NEGOMBO ESTUARY, SRI LANKA
Topic: Environmental Applications: Coastal and Wetlands
Session: Coastal and Wetlands II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Ddgl Dahanayaka, H Tonooka, Mjs Wijeyaratne, A Minato, S Ozawa
- View**
ADD
- Paper Code:** TUP.A.3 **Paper Number:** 1251
Title: SUBSIDENCE AND DSM ESTIMATION USING GEOWATCH SOFTWARE
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: InSAR I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Aiguo Zhao, Hui Lin, Huadong Guo, Jinsong Chen, Li-Ming Jiang
- View**
ADD
- Paper Code:** MO4.T07.1 **Paper Number:** 1252
Title: A PRELIMINARY STUDY ON IMAGING TIME DIFFERENCE AMONG BANDS OF WORLDVIEW-2 AND ITS POTENTIAL APPLICATIONS
Topic: Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing
Session: High Resolution Optical Sensing I
Time: Monday, July 25, 15:20 - 17:00
Authors: Jianwei Tao, Wenxian Yu
- View**
ADD
- Paper Code:** TUP.H.1 **Paper Number:** 1253
Title: A NEW PHYSICALLY BASED METHOD FOR AIR TEMPERATURE DOWNSCALING
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Monitoring of the Environment and Retrieval of Physical Parameters
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yuan Rong, Hongbo Su, Renhua Zhang, Jing Tian, Shaohui Chen, Yongmin Yang, Bin Li
- View**
- Paper Code:** MO4.T09.4 **Paper Number:** 1254

ADD **Title:** AN ADAPTIVE THRESHOLDING APPROACH TO MULTIPLE-CHANGE DETECTION IN MULTISPECTRAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Change Detection and Multitemporal Image Analysis II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Francesca Bovolo, Lorenzo Bruzzone

View

Paper Code: WE3.T01.1**Paper Number:** 1255**Title:** USING WORLDWIDE AVAILABLE TERRASAR-X DATA TO CALIBRATE THE GEO-LOCATION ACCURACY OF OPTICAL SENSORSADD **Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Calibration and Error Mitigation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Roland Perko, Hannes Raggam, Karlheinz Gutjahr, Mathias Schardt

View

Paper Code: WE3.T02.1**Paper Number:** 1256**Title:** POLINSAR : FROM SIR-C TO TANDEM-XADD **Topic:** Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X**Session:** Polarimetric Interferometry: Applications with Tandem-X I**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Shane R. Cloude

View

Paper Code: MO3.T03.2**Paper Number:** 1258**Title:** SMOS SOIL MOISTURE VALIDATION WITH U.S. IN SITU NETWORKSADD **Topic:** Land: Soils and Soil Moisture**Session:** SMOS Soil Moisture Validation**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Thomas Jackson, Rajat Bindlish, Michael Cosh, Tianjie Zhao

View

Paper Code: TUP.P.1**Paper Number:** 1259**Title:** CALCULATION OF THE EFFECTIVE REFLECTION COEFFICIENT USING ALTIMETER DATAADD **Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Vladimir Karaev, Mikhail Kanevsky, Eugeny Meshkov

View

Paper Code: TH3.T06.3**Paper Number:** 1261**Title:** Water body detection from TanDEM-X data: Concept and first evaluation of an accurate water indication maskADD **Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Anna Wendleder, Markus Breunig, Klaus Martin, Birgit Wessel, Achim Roth

View

Paper Code: MO4.T09.3**Paper Number:** 1262**Title:** A SEMANTIC-BASED MULTILEVEL APPROACH TO CHANGE DETECTION IN VERY HIGH GEOMETRICAL RESOLUTION MULTITEMPORAL IMAGESADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Change Detection and Multitemporal Image Analysis II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Lorenzo Bruzzone, Francesca Bovolo

ViewADD **Paper Code:** WEP.W.7**Paper Number:** 1263**Title:** PRELIMINARY ERROR BUDGET OF A GNSS-R SPACEBORNE MISSION**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Adriano Camps, Hyuk Park, Enric Valencia, Antonio Rius**View**ADD **Paper Code:** FR2.T04.1**Paper Number:** 1265**Title:** PAU INSTRUMENT ABOARD INTA MICROSAT-1: A GNSS-R DEMONSTRATION MISSION FOR SEA STATE CORRECTION IN L-BAND RADIOMETRY**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments II**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Adriano Camps, Juan Fernando Marchan, Enric Valencia, Isaac Ramos, Xavier Bosch, Nereida Rodriguez, Hyuk Park, Antonio Alcayde, Antonio Mollfulleda, Juan Jose Galindo, Pedro Martinez, Sergio Chavero, Manuel Angulo, Antonio Rius**View**ADD **Paper Code:** TUP.O.7**Paper Number:** 1266**Title:** MULTIFACTOR MODELS AND SIMULATIONS FOR OCEAN MICROWAVE RADIOMETRY**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Victor Raizer**View**ADD **Paper Code:** TUP.C.4**Paper Number:** 1267**Title:** ROBUST PHASE CORRECTION METHOD FOR SAR TOMOGRAPHY VIA PHASE GRADIENT AUTOFOCUS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Sun Xilong, Dong Zhen, Yu Anxi, Liang Diannong**View**ADD **Paper Code:** WEP.R.5**Paper Number:** 1268**Title:** MAPPING OF CHLOROPHYLL-A CONCENTRATION OF RESERVOIR DAJINGSHAN, ZHUHAI, CHINA, FROM LANDSAT THEMATIC MAPPER**Topic:** Land: Wetlands and Inland Waters**Session:** Environmental Applications I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yujiu Xiong, Xiaohong Chen, Guoyu Qiu, Shenglin Tan**View**ADD **Paper Code:** WE3.T04.5**Paper Number:** 1274**Title:** MULTI-FREQUENCY, MULTI-POLARIZATION AND ANGULAR MEASUREMENTS OF BARE SOIL, SNOW AND WATER ICE MICROWAVE REFLECTION AND EMISSION BY C-, KU-, AND KA-BAND, COMBINED SCATTEROMETER-RADIOMETER SYSTEMS**Topic:** Land: Soils and Soil Moisture**Session:** Freeze-Thaw and Soil Moisture**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Artashes Arakelyan, Astghik Hambaryan, Vardan Hambaryan, Vanik Karyan, Mushegh Manukyan, Melanya Grigoryan, Gagik Hovhannisyan, Arsen Arakelyan, Marine Simonyan, Mariam Krdayan

ViewADD **Paper Code:** MOP.X.3**Paper Number:** 1276**Title:** THE RESULTS OF PRELIMINARY TESTING OF TWO-FREQUENCY (AT 5.6GHZ, AND 13.6GHZ), MULTI-POLARIZATION, COMBINED SCATTEROMETER-RADIOMETER SYSTEM IN FIELD CONDITIONS**Topic:** Sensors and Platforms: Active Microwave**Session:** Active Microwave Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Artashes Arakelyan, Astghik Hambaryan, Vanik Karyan, Gagik Hovhannisyan, Arsen Arakelyan, Melanya Grigoryan, Marine Simonyan, Mariam Krryan**View**ADD **Paper Code:** TU1.T10.4**Paper Number:** 1279**Title:** THE EFFECT OF RAIN ON ASCAT OBSERVATIONS OF THE SEA SURFACE RADAR CROSS SECTION USING SIMULTANEOUS 3-D NEXRAD RAIN MEASUREMENTS**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** David Weissman, Mark Bourassa**View**ADD **Paper Code:** TUP.S.1**Paper Number:** 1281**Title:** ESTIMATION OF THE LAND SURFACE INSTANTANEOUS NET RADIATION AND ITS DIURNAL CYCLE INTEGRATING MULTI-SOURCE REMOTE SENSING DATA UNDER CLEAR SKY**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenyu Liu, Adu Gong, Ji Zhou, Wenfeng Zhan**View**ADD **Paper Code:** MOP.U.2**Paper Number:** 1282**Title:** THE ANALYSIS OF TWI DATA FOR HUMAN BEING'S PERIODIC MOTIONS**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems, Methods and Applications II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Zhaofa Zeng, Jiguang Sun, Jing Li, Fengshan Liu, Qi Lu, Xiong Chen**View**ADD **Paper Code:** TU1.T01.1**Paper Number:** 1284**Title:** EFFECTIVE TREE SCATTERING AT L-BAND**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Volume Scattering**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Mehmet Kurum, Peggy O'Neill, Roger Lang, Alicia Joseph, Michael Cosh, Thomas Jackson**View**ADD **Paper Code:** TH1.T09.1**Paper Number:** 1285**Title:** EXPLICIT SIGNAL TO NOISE RATIO IN REPRODUCING KERNEL HILBERT SPACES**Topic:** Invited Sessions: New trends in machine learning for remote sensing**Session:** New Trends in Machine Learning for Remote Sensing**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Luis Gómez-Chova, Allan A. Nielsen, Gustavo Camps-Valls**View****Paper Code:** MO3.T01.2**Paper Number:** 1286**Title:** APPLICATIONS OF THE INTEGRAL EQUATION MODEL IN MICROWAVE REMOTE SENSING OF LAND SURFACE PARAMETERS

ADD

Topic: Invited Sessions: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung

Session: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung

Time: Monday, July 25, 13:20 - 15:00

Authors: Jiancheng Shi, Kun-Shan Chen

View

Paper Code: FR1.T05.5

Paper Number: 1287

Title: SUMMARY OF TERRA AND AQUA MODIS LONG-TERM PERFORMANCE

ADD

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Passive Optical and Hyperspectral Sensors III

Time: Friday, July 29, 08:20 - 10:00

Authors: Xiaoxiong Xiong, Brian Wenny, Amit Angal, William Barnes, Vince Salomonson

View

Paper Code: MOP.A.2

Paper Number: 1291

Title: A MULTI-LEVEL RADIATION TRANSFER SOLUTION FOR 3D LANDSCAPE

ADD

Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling

Session: Electromagnetic Modeling and Data Analysis

Time: Monday, July 25, 17:00 - 18:30

Authors: Huaguo Huang

View

Paper Code: FR1.T10.3

Paper Number: 1293

Title: COMPACT RECONNAISSANCE IMAGING SPECTROMETER FOR MARS CRISM (CRISM)

ADD

Topic: Data Management, Dissemination, Education and Policy: Education and Remote Sensing

Session: Data Management and Systems

Time: Friday, July 29, 08:20 - 10:00

Authors: Kaiem Frink, Dr. Linda Hayden, Dr. Malcom Lecompte

View

Paper Code: FR2.T06.1

Paper Number: 1295

Title: THE DEVELOPMENT OF A FIRE VULNERABILITY INDEX FOR THE MEDITERRANEAN REGION

ADD

Topic: Land: Natural Disaster / Land Slide

Session: Remote Sensing for Natural Disasters Monitoring and Management

Time: Friday, July 29, 10:20 - 12:00

Authors: Laneve Giovanni, Munzer Jahjah, Ferrucci Fabrizio, Batazza Fabrizio

View

Paper Code: MO4.T02.2

Paper Number: 1296

Title: MAPPING DYNAMIC WETLAND PROCESSES WITH A ONE YEAR RADARSAT-2 QUAD POL TIME-SERIES

ADD

Topic: Invited Sessions: Advanced Methods for Polarimetric SAR information extraction

Session: Advanced Methods for Polarimetric SAR Information Extraction II

Time: Monday, July 25, 15:20 - 17:00

Authors: Cecile Marechal, Eric Pottier, Sophie Allain, Stephane Meric, Laurence Hubert-Moy, Samuel Corgne

View

Paper Code: MO3.T09.3

Paper Number: 1298

Title: MULTITEMPORAL REGION-BASED CLASSIFICATION OF HIGH-RESOLUTION IMAGES BY MARKOV RANDOM FIELDS AND MULTISCALE SEGMENTATION

ADD

Topic: Invited Sessions: Change Detection and Multitemporal Image Analysis

Session: Change Detection and Multitemporal Image Analysis I

- View**
ADD
- Time:** Monday, July 25, 13:20 - 15:00
Authors: Gabriele Moser, Sebastiano B. Serpico
Paper Code: TU1.T09.1
Paper Number: 1299
Title: CONTEXTUAL HIGH-RESOLUTION IMAGE CLASSIFICATION BY MARKOVIAN DATA FUSION, ADAPTIVE TEXTURE EXTRACTION, AND MULTISCALE SEGMENTATION
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Data Fusion
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Gabriele Moser, Sebastiano B. Serpico
- View**
ADD
- Paper Code:** MOP.Y.7
Paper Number: 1300
Title: ROBUST IR REMOTE SENSING TECHNIQUE OF THE TOTAL COLUMN OF TRACE GASES INCLUDING CARBON DIOXIDE AND METHANE
Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors
Session: Passive Optical and Hyperspectral Sensors I
Time: Monday, July 25, 17:00 - 18:30
Authors: Elena Georgieva, William Heaps
- View**
ADD
- Paper Code:** WEP.H.1
Paper Number: 1301
Title: INCORPORATING AMERIFLUX DATA INTO LVT
Topic: Land: Land Use and Land Cover Change
Session: Advances in Earth Sensing and Applications II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Teodor Georgiev, Sujay Kumar, Christa Peters-Lidard
- View**
ADD
- Paper Code:** FR4.T07.1
Paper Number: 1306
Title: SOME STUDIES IN REGIONAL ENVIRONMENTAL AIR QUALITY MODELING, CLIMATE CHANGE AND RELATED HEALTH EFFECTS
Topic: Environmental Applications: Pollution and Contamination
Session: Pollution and Contamination II
Time: Friday, July 29, 15:20 - 17:00
Authors: Robert Huchins, Allan Maina, Francis Tuluri, Suseela Reddy Remata, James Ejiwale
- View**
ADD
- Paper Code:** TU2.T01.2
Paper Number: 1307
Title: CO-SEISMIC DISPLACEMENT OBSERVATION IN DECORELATE BELT ALONG SEISMIC FAULT OF 2008 WENCHUAN EARTHQUAKE
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: Deformation Interferometry
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Chunyan Qu, Yunhua Liu, Xinjian Shan, Guohong Zhang, Guifang Zhang, Xiaogang Song
- View**
ADD
- Paper Code:** WE1.T06.1
Paper Number: 1309
Title: ESTUARY WETLAND DETECTION IN SAR IMAGES
Topic: Environmental Applications: Coastal and Wetlands
Session: Coastal and Wetlands III
Time: Wednesday, July 27, 08:20 - 10:00
Authors: Yu-Chang Tzeng, Kuo-Tai Fan, C. Y. Lin, Y. F. Lin, Kun-Shan Chen
- View**
ADD
- Paper Code:** TUP.V.2
Paper Number: 1312

ADD **Title:** NONSTATIONARY SEISMIC DECONVOLUTION BY ADAPTIVE MOLECULAR DECOMPOSITION**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Lingling Wang, Jinghui Gao, Wei Zhao, Xiudi Jiang

View

Paper Code: TUP.D.4**Paper Number:** 1314ADD **Title:** SPECTRAL AND SPATIAL CLASSIFICATION OF HYPERSPECTRAL DATA USING SVMS AND GABOR TEXTURES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Lian-Zhi Huo, Ping Tang

View

Paper Code: WEP.I.1**Paper Number:** 1315ADD **Title:** ESTIMATION OF SOIL MOISTURE FROM MODIS DATA AND PRECIPITATION**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yu-Chang Tzeng, Kuo-Tai Fan, C. Y. Lin, Y. F. Lin, Kun-Shan Chen

View

Paper Code: MOP.U.3**Paper Number:** 1317ADD **Title:** ANALYSIS OF A WIDE BANDWIDTH UNDERSAMPLED DIGITALLY HETERODYNED SFGPR**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems, Methods and Applications II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Giovanni Galiero, Doroteo Adirosi, Giovanni Alberti

View

Paper Code: WE1.T01.1**Paper Number:** 1318ADD **Title:** DUAL-POLARIZED COSMO SKYMED SAR DATA TO OBSERVE METALLIC TARGETS AT SEA**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLSAR Applications**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Ferdinando Nunziata, Antonio Montuori, Maurizio Migliaccio

View

Paper Code: TUP.X.8**Paper Number:** 1320ADD **Title:** MERITXELL: A Multifrequency Microwave Radiometer for Radio-Frequency Interference Studies**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jose Miguel Tarongi, Adriano Camps

View

Paper Code: TH3.T01.3**Paper Number:** 1322ADD **Title:** HETEROGENEOUS CLUTTER MODEL FOR HIGH RESOLUTION POLARIMETRIC SAR DATA PROCESSING**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Gabriel Vasile, Frederic Pascal, Jean-Philippe Ovarlez, Pierre Formont

ViewADD **Paper Code:** MOPS.3**Paper Number:** 1325**Title:** INTEGRATING X-SAR IMAGES AND ANTHROPIC FACTORS FOR FIRE SUSCEPTIBILITY ASSESSMENT**Topic:** Land: Others**Session:** Land Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Silvia Canale, Alberto De Santis, Daniela Iacoviello, Fiara Pirri, Simone Sagratella**View**ADD **Paper Code:** MO3.T09.4**Paper Number:** 1327**Title:** UNSUPERVISED CHANGE DETECTION IN THE FEATURE SPACE USING KERNELS**Topic:** Invited Sessions: Change Detection and Multitemporal Image Analysis**Session:** Change Detection and Multitemporal Image Analysis I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Michele Volpi, Devis Tuia, Gustavo Camps-Valls, Mikhail Kanevski**View**ADD **Paper Code:** WE3.T08.3**Paper Number:** 1328**Title:** WATER/LAND SEGMENTATION FOR SAR IMAGES BASED ON GEODESIC DISTANCE**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Hua Zhong, Qing Xie, L.C. Jiao, Shuang Wang**View**ADD **Paper Code:** TUP.V.3**Paper Number:** 1329**Title:** PS-INSAR MONITORING AND FINITE ELEMENT SIMULATION OF GEOMECHANICAL AND HYDROGEOLOGICAL RESPONSES IN SEDIMENTARY FORMATIONS**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qi Li, Kazumasa Ito, Yanfang Dong, Isao Sato, Yoji Seki, Yasuo Tomishima, Satoshi Okuyama**View**ADD **Paper Code:** WEP.X.1**Paper Number:** 1333**Title:** A FAST TRACKING ALGORITHM IN GPS SOFTWARE RECEIVER**Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management, Dissemination, Education and Policy**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xiangzhen Yao, Xinxian Qin, Shaolong Cui, Jinyun Fang, Yu Chen**View**ADD **Paper Code:** WEP.R.4**Paper Number:** 1336**Title:** AN EXAMINATION OF INTERTODAL TEMPERATURES THROUGH REMOTELY SENSED SATELLITE OBSERVATIONS**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Environmental Applications I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Venkat Lakshmi**View**ADD **Paper Code:** WEP.P.1**Paper Number:** 1338**Title:** INTERANNUAL VARIABILITY AND LONG-TERM TRENDS OF THE MEGA CITY AIR POLLUTIONS BASED UPON AEROSOL PRODUCTS FROM SEAWIFS AND MODIS

- Topic:** Atmosphere: Aerosols and Atmospheric Chemistry
Session: Aerosols and Atmospheric Chemistry I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: N. Christina Hsu, Corey Bettenhausen, Myeong-Jae Jeong, Andrew Sayer
- View**
Paper Code: WE2.T04.4 **Paper Number:** 1339
Title: ACCURATE OPTIMAL DOPPLER CENTROID ESTIMATION FOR SAR DATA
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: SAR Calibration
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Pietro Guccione, Andrea Monti-Guarnieri
- ADD**
- View**
Paper Code: TUP.C.3 **Paper Number:** 1340
Title: SAR TOMOGRAPHY DEVELOPMENT FOR RADARSAT-2
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: New Techniques in InSAR / High Resolution SAR
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Valentin Poncos, Michael Collins
- ADD**
- View**
Paper Code: TH1.T05.2 **Paper Number:** 1341
Title: MAPPING INVASIVE PLANT SPECIES IN TROPICAL RAINFOREST USING POLARIMETRIC RADARSAT-2 AND PALSAR DATA
Topic: Land: Forests and Vegetation
Session: SAR/Lidar Sensing III
Time: Thursday, July 28, 08:20 - 10:00
Authors: Abduwasit Ghulam, Karen Freeman, An Bollen, Robert Ripperdan, Ingrid Porton
- ADD**
- View**
Paper Code: TUP.E.5 **Paper Number:** 1342
Title: Monitor Land Surface with Infrared Surface Emissivity and Skin Temperature
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Hyperspectral Monitoring of the Environment II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Daniel Zhou, Allen Larar, Xu Liu
- ADD**
- View**
Paper Code: TH1.T06.1 **Paper Number:** 1345
Title: SPATIO-TEMPORAL DYNAMICS OF PERENNIAL ENERGY CROPS IN THE U.S. MIDWEST AGRICULTURAL LANDS
Topic: Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment
Session: Remote Sensing and Geo-informatics for Agricultural Monitoring and Assessment
Time: Thursday, July 28, 08:20 - 10:00
Authors: Cuizhen 'Susan' Wang, Gary Stacey, Felix B. Fritschi, Wyatt Thompson, Timothy C. Matisziw, Zhengwei Yang
- ADD**
- View**
Paper Code: TUP.L.1 **Paper Number:** 1346
Title: SAR-to-LiDAR Mapping for Tree Volume Prediction in the Kruger National Park
Topic: Land: Forests and Vegetation
Session: SAR/Lidar Sensing II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Herman Myburgh, Jan C. Olivier, R. Mathieu, Konrad Wessels, B. Lebnon, G. Asner, Joseph Buckley
- ADD**

[View](#)ADD **Paper Code:** TU3.T07.4**Paper Number:** 1347**Title:** CALIBRATION AND VALIDATION OF DMSP/SSMIS**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Ye Hong, Don Boucher[View](#)ADD **Paper Code:** WE1.T02.5**Paper Number:** 1348**Title:** IN-ORBIT PERFORMANCE OF TSX-1 & TDX-1**Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Daniel Schulze, Paola Rizzoli, Benjamin Bräutigam, Gerhard Krieger[View](#)ADD **Paper Code:** FR3.T07.2**Paper Number:** 1349**Title:** IS IT POSSIBLE TO MAKE PIXEL-BASED RADAR IMAGE CLASSIFICATION USER-FRIENDLY?**Topic:** Environmental Applications: Others**Session:** Environmental Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Rodrigo Pisani, Paulina Riedel, Alessandra Gomes, Rodrigo Mizobe, Joao Papa[View](#)ADD **Paper Code:** TU2.T01.1**Paper Number:** 1350**Title:** LONG-TERM AIRBORNE DINSAR MEASUREMENTS: P- AND X-BAND CASES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Deformation Interferometry**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Karlus Alexander Camara de Macedo, Christian Wimmer, Thiago L. Morais Barreto, Dieter Luebeck, João Roberto Moreira, Lis Maria L. Rabaco, Wilson J. De Oliveira[View](#)ADD **Paper Code:** FR1.T03.1**Paper Number:** 1351**Title:** A STUDY OF THE NOAA NEAR-NADIR MICROWAVE HUMIDITY SOUNDER BRIGHTNESS TEMPERATURES OVER ANTARCTICA**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Tsan Mo, Yong Han, Fuzhong Weng[View](#)ADD **Paper Code:** TUP.O.1**Paper Number:** 1352**Title:** DEPOLARIZATION OF MICROWAVE BACKSCATTERING FROM A ROUGH SEA SURFACE: MODELING WITH SMALL-SLOPE APPROXIMATION**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Alexander Voronovich, Valery Zavorotny[View](#)**Paper Code:** TU3.T10.1**Paper Number:** 1353

ADD

Title: A STUDY OF SEA SURFACE HEIGHT RETRIEVAL USING DOPPLER MEASUREMENTS FROM NUMERICALLY SIMULATED LOW GRAZING ANGLE BACKSCATTER DATA

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents II

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Chun-Sik Chae, Joel Johnson

View

ADD

Paper Code: TH1.T03.1

Paper Number: 1354

Title: INTERFEROMETRIC SYNTHETIC APERTURE MICROWAVE RADIOMETERS: AN OVERVIEW

Topic: Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers

Session: Interferometric Synthetic Aperture Microwave Radiometers I

Time: Thursday, July 28, 08:20 - 10:00

Authors: Andreas Colliander, Darren McKague

View

ADD

Paper Code: MOP.T.1

Paper Number: 1358

Title: TIME-DOMAIN RECONSTRUCTION OF BURIED OBJECTS USING AN ESTIMATED PULSE

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications I

Time: Monday, July 25, 17:00 - 18:30

Authors: Hui Zhou, Wanjin Liu

View

ADD

Paper Code: TH2.T05.3

Paper Number: 1362

Title: CHARACTERISTICS OF ASTER GDEM VERSION 2

Topic: Invited Sessions: ASTER

Session: ASTER

Time: Thursday, July 28, 10:20 - 12:00

Authors: Tetsushi Tachikawa, Masami Hato, Manabu Kaku, Akira Iwasaki

View

ADD

Paper Code: WEP.U.1

Paper Number: 1365

Title: AIRBORNE GPR: ADVANCES AND NUMERICAL SIMULATION

Topic: Sensors and Platforms: UAV and Airborne Platforms

Session: Remote Sensing using Unmanned Aerial Vehicles

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Sixin Liu, Yanqian Feng

View

ADD

Paper Code: TUP.C.2

Paper Number: 1366

Title: GROUND MOVING TARGET INDICATION BY MIMO SAR WITH MULTI-ANTENNA IN AZIMUTH

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: New Techniques in InSAR / High Resolution SAR

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Wen-Qin Wang, Jingye Cai

View

ADD

Paper Code: MOP.J.5

Paper Number: 1368

Title: BASED ON REMOTE SENSING PROCESSING TECHNOLOGY ESTIMATING LEAVES STOMATAL DENSITY OF POPULUS EUPHRATICA

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30

Authors: Shengqi Jian, Chuanyan Zhao, Yang Zhao

ViewADD **Paper Code:** FR2.T04.2**Paper Number:** 1369**Title:** CROSS-COMPARISON BETWEEN CHINA HJ1A-CCD AND LANDSAT TM DATA**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments II**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Guoqing Li, Xiaobing Li, Hong Wang, Lihong Chen, Wanyu Wen**View**ADD **Paper Code:** TUP.L.6**Paper Number:** 1372**Title:** ESTIMATING SPATIAL DISTRIBUTION OF RADIATION BELOW THE QINGHAI SPRUCE FOREST CANOPY IN QILIAN MOUNTAINS USING HEMISPHERICAL IMAGES AND AIRBORNE LIDAR DATA**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Huanhua Peng, Chuanyan Zhao, Zhaodong Feng, Fengxia Tian, Zhonglin Xu**View**ADD **Paper Code:** TUP.C.1**Paper Number:** 1374**Title:** A NEW SAR CHIP IMAGE SEGMENTATION METHOD BY EXPLOITING SPATIAL RELATION BETWEEN TARGET AND SHADOW**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Zebing Zhang, Weidong Hu, Xiaoyong Du**View**ADD **Paper Code:** TH2.T05.5**Paper Number:** 1375**Title:** VOLCANO OBSERVATIONS WITH ASTER AND ASTER IMAGE DATABASE FOR VOLCANOES**Topic:** Invited Sessions: ASTER**Session:** ASTER**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Minoru Urai**View**ADD **Paper Code:** TH2.T05.1**Paper Number:** 1379**Title:** ASTER OPERATION SCENARIO AND STATUS**Topic:** Invited Sessions: ASTER**Session:** ASTER**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Yasushi Yamaguchi, Masaru Fujita, Tetsushi Tachikawa, Masatane Kato, Hiroji Tsu, Michael Abrams, Leon Maldonado**View**ADD **Paper Code:** MOP.B.2**Paper Number:** 1382**Title:** THE INFLUENCE OF PRECIPITATION ON X-BAND POLARIMETRIC SAR: RESULTS FROM TERRASAR-X AND COSMO-SKYMED AND TERRESTRIAL WEATHER RADARS**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jason Fritz, Venkatachalam Chandrasekar**View****Paper Code:** TU4.T07.2**Paper Number:** 1383

ADD

Title: DEVELOPMENT OF SPACEBORNE RAIN RADAR IN CHINA: THE FIRST RESULTS FROM AIRBORNE DUAL-FREQUENCY RAIN RADAR FIELD CAMPAIGN

Topic: Atmosphere: Precipitation and Clouds

Session: Remote Sensing of Precipitation from Space - The Past, Present and Future II

Time: Tuesday, July 26, 15:20 - 17:00

Authors: Hu Yang, Jian Shang, Qiong Wu, Honggang Yin, Yang Guo

View

Paper Code: MO3.T02.4

Paper Number: 1386

Title: New method for ship detection

ADD

Topic: Invited Sessions: Advanced Methods for Polarimetric SAR information extraction

Session: Advanced Methods for Polarimetric SAR Information Extraction I

Time: Monday, July 25, 13:20 - 15:00

Authors: Jian Yang, Hongji Zhang, Yoshio Yamaguchi

View

Paper Code: WEP.J.4

Paper Number: 1391

Title: ESTIMATION OF RADIATIVE TRANSFER PARAMETERS FOR SOIL MOISTURE RETRIEVAL FROM SMOS BRIGHTNESS TEMPERATURES – A SYNTHETIC 1D EXPERIMENT WITH THE PARTICLE FILTER

ADD

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Passive Microwave

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Carsten Montzka, Harrie-Jan Hendricks-Franssen, Matthias Drusch, Hamid Moradkhani, Lutz Weihermüller, Diego Fernandez Prieto, Heye Bogena, Jan Vanderborght, Harry Vereecken

View

Paper Code: WEP.H.2

Paper Number: 1392

Title: TOWARD GLOBAL-SCALE DATA ASSIMILATION USING SWOT: REQUIREMENTS FOR GLOBAL HYDRODYNAMICS MODELS

ADD

Topic: Land: Wetlands and Inland Waters

Session: Advances in Earth Sensing and Applications II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Dai Yamazaki, Douglas Alsdorf, Hyungjun Kim, Shinjiro Kanae, Taikan Oki, Konstantinos Andreadis

View

Paper Code: WEP.M.9

Paper Number: 1393

Title: DETECTING AND ASSESSMENT OF SNOW LINES CHANGE WITH CLIMATE WARMING BASED ON MODIS DATA IN THE NIANQINGTANGLHA OF TIBET PLATEAU

ADD

Topic: Land: Land Ice and Snow

Session: Research Projects and Passive Microwave Remote Sensing Snow and Ice

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Liping Lei, Zhaocheng Zeng, Yanhong Wu, Bing Zhang

View

Paper Code: MOP.X.4

Paper Number: 1396

Title: CALIBRATION AND DATA PREPROCESSING FOR THE FLIGHT EXPERIMENT OF CHINESE SPACEBORNE PRECIPITATION MEASUREMENT RADAR

ADD

Topic: Sensors and Platforms: Active Microwave

Session: Active Microwave Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Honggang Yin, Hu Yang, Jian Shang, Qiong Wu, Yang Guo

ViewADD **Paper Code:** TUP.I.7**Paper Number:** 1400**Title:** NSCT BASED ROAD EXTRACTION FROM REMOTE SENSING IMAGE USING DIRECTIONAL PRIOR**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Urban Areas, Buildings and Roads**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hua Zhong, Dan Zhu, L.C. Jiao, Kun Liu**View**ADD **Paper Code:** TH2.T07.1**Paper Number:** 1402**Title:** WATER VAPOR RETRIEVAL OVER CLOUD COVER AREA ON LAND**Topic:** Atmosphere: Precipitation and Clouds**Session:** Atmospheric Sensing Techniques I**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Dabin Ji, Jiancheng Shi, Shenglei Zhang**View**ADD **Paper Code:** WEP.N.6**Paper Number:** 1403**Title:** ON THE STUDY OF RAIN PROFILE RETRIEVAL ALGORITHM DEVELOPMENT: FIRST RESULTS FROM AIRBORNE RAIN RADAR FIELD CAMPAIGN IN CHINA**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Qiong Wu, Hu Yang, Jian Shang, Yang Guo, Honggang Yin**View**ADD **Paper Code:** WEP.N.5**Paper Number:** 1405**Title:** PERFORMANCE EVALUATION OF CHINA SPACEBORNE PRECIPITATION RADAR: PRELIMINARY RESULTS FROM AIRBORNE RADAR FIELD CAMPAIGN**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jian Shang, Hu Yang, Yang Guo, Qiong Wu, Honggang Yin**View**ADD **Paper Code:** MOP.G.2**Paper Number:** 1407**Title:** A UNIFIED THREE-COMPONENT SCATTERING MODEL FOR POLARIMETRIC COHERENT TARGET DECOMPOSITION**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hong-Zhong Li, Chao Wang, Hong Zhang, Lin Liu, Li-Ming Jiang, Jin-Xing Hu**View**ADD **Paper Code:** MOP.M.1**Paper Number:** 1408**Title:** SAR IMAGING FROM COMPRESSED MEASUREMENTS BASED ON L1/2 REGULARIZATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jinshan Zeng, Zongben Xu, Hai Jiang, Bingchen Zhang, Wen Hong, Yirong Wu**View**ADD **Paper Code:** FR3.T07.3**Paper Number:** 1410**Title:** HOW THE RESOLUTION OF DEMS AND LAND USE EFFECT THE HYDROLOGIC RESPONSE UNITS CREATED IN SWAT MODEL?**Topic:** Environmental Applications: Others**Session:** Environmental Applications II

Time: Friday, July 29, 13:20 - 15:00**Authors:** Chao Wang, Chuanyan Zhao, Zhaodong Feng, Shouzhang Peng, Zhonglin Xu**View****ADD** **Paper Code:** MO4.T07.4**Paper Number:** 1411**Title:** QUERY EXPANSION FOR VHR IMAGE DETECTION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** High Resolution Optical Sensing I**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Huaxin Zheng, Huigang Zhang, Xiao Bai, Huijie Zhao**View****ADD** **Paper Code:** MOP.D.1**Paper Number:** 1414**Title:** CLASSIFICATION OF HIGH RESOLUTION TERRASAR-X SHIP CHIPS BASED ON DISTRIBUTION CHARACTERISTIC MATRIX OF SCATTERING CENTERS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hong-Zhong Li, Chao Wang, Hong Zhang, Li-Ming Jiang, Lin Liu**View****ADD** **Paper Code:** WE2.T05.5**Paper Number:** 1416**Title:** CHANGES IN VEGETATION AND RAINFALL PATTERNS IN SUB-SAHARAN AFRICA OVER THE LAST DECADE OBSERVED BY SATELLITES - A NATIONAL AND SUB-NATIONAL SYNTHESIS**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Agata Hoscilo, Heiko Balzter, Etienne Bartholome, Mirco Boschetti, Pietro Alessandro Brivio, Andreas Brink**View****ADD** **Paper Code:** WEP.I.7**Paper Number:** 1419**Title:** CLIMATOLOGY OF SOIL MOISTURE MAPS FROM THE ASSIMILATION OF SATELLITE-DERIVED LST OBSERVATIONS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Lorenzo Campo, Fabio Castelli, Francesca Caparrini, Dara Entekhabi**View****ADD** **Paper Code:** TH4.T06.3**Paper Number:** 1422**Title:** GROUND DEFORMATION STUDIES IN CEPHALLONIA ISLAND (WESTERN GREECE) BASED ON DGPS AND PS INTERFEROMETRY**Topic:** Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas**Session:** Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas I**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Evangelos Lagios, Vassilios Sakkas, Fabrizio Novali, Alfio Fumagalli, Sara Del Conte**View****ADD** **Paper Code:** MOP.L.1**Paper Number:** 1424**Title:** An Iterative Edge and Region based Segmentation Algorithm for Object Extraction in High Resolution Images**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation and Object Detection

- View**
ADD
- Time:** Monday, July 25, 17:00 - 18:30
Authors: Dinesh Singh Kutiyal, Pabitra Mitra
Paper Code: FR3.T05.4
Paper Number: 1426
Title: RETRIEVING BRDF OF DESERT USING TIME SERIES OF MODIS IMAGERY
Topic: Land: Others
Session: Land Applications II
Time: Friday, July 29, 13:20 - 15:00
Authors: Haixia Huang, Bo Zhong, Qinhuo Liu, Lin Sun
- View**
ADD
- Paper Code:** TU4.T06.1
Paper Number: 1428
Title: ESTIMATION OF RIVER DISCHARGE WITH MODIS IMAGES
Topic: Environmental Applications: Coastal and Wetlands
Session: Coastal and Wetlands I
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Kohei Hashimoto, Kazuo Oki
- View**
ADD
- Paper Code:** MOP.D.7
Paper Number: 1429
Title: HIGH RESOLUTION SAR IMAGE RECONSTRUCTION: THE GENERALIZED BACKPROJECTION ALGORITHM
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: High Resolution SAR
Time: Monday, July 25, 17:00 - 18:30
Authors: Angel Ribalta
- View**
ADD
- Paper Code:** TU2.T05.3
Paper Number: 1432
Title: CLASSIFICATION OF TYPHOON-DESTROYED FORESTS BASED ON TREE HEIGHT CHANGE DETECTION USING INSAR TECHNOLOGY
Topic: Land: Forests and Vegetation
Session: Vegetation Structure and Inventory I
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Haipeng Wang, Kazuo Ouchi, Ya-Qiu Jin
- View**
ADD
- Paper Code:** MOP.T.2
Paper Number: 1436
Title: LANDMINE DETECTION USING THE DISCRETE SPECTRUM OF RELAXATION FREQUENCIES
Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Systems, Methods and Applications I
Time: Monday, July 25, 17:00 - 18:30
Authors: Mu-Hsin Wei, Waymond Scott, James McClellan
- View**
ADD
- Paper Code:** TH2.T01.4
Paper Number: 1438
Title: ROAD EXTRACTION IN URBAN AND RURAL ENVIRONMENTS EXPLOITING A DUAL-BAND SAR SYSTEM
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: SAR/InSAR Image Extraction and Improvement Techniques
Time: Thursday, July 28, 10:20 - 12:00
Authors: Gianni Lisini, Paolo Gamba, Dieter Luebeck
- View**
ADD
- Paper Code:** TU2.T05.2
Paper Number: 1439
Title: FLOWER SPECIES IDENTIFICATION AND COVERAGE ESTIMATION BASED ON HYPERSPECTRAL REMOTE SENSING DATA

ADD **Topic:** Land: Forests and Vegetation**Session:** Vegetation Structure and Inventory I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Yingying Gai, Wenjie Fan, Xiru Xu, Yuanzhen Zhang

View

Paper Code: MOP.H.8**Paper Number:** 1442**Title:** A CONTEXT-BASED APPROACH FOR THE CLASSIFICATION OF SATELLITE IMAGE TIME SERIESADD **Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Camille Kurtz, Francois Petitjean, Pierre Gancarski

View

Paper Code: WE3.T09.1**Paper Number:** 1445**Title:** Validating Satellite Land Surface Temperature Products for GOES-R and JPSS MissionsADD **Topic:** Invited Sessions: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Session:** Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Yunyue Yu, Mitchell Goldberg, Ivan Csiszar

View

Paper Code: TH2.T09.3**Paper Number:** 1448**Title:** A NOVEL ACTIVE LEARNING STRATEGY FOR DOMAIN ADAPTATION IN THE CLASSIFICATION OF REMOTE SENSING IMAGESADD **Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Claudio Persello, Lorenzo Bruzzone

View

Paper Code: MO4.T06.5**Paper Number:** 1451**Title:** INTERFEROMETRY BY MULTIDIMENSIONAL DECONVOLUTION FOR TIME-LAPSE CONTROLLED SOURCE ELECTROMAGNETICSADD **Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Applications**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Juerg Hunziker, Evert Slob, Kees Wapenaar

View

Paper Code: TU2.T06.1**Paper Number:** 1452**Title:** URBAN AREA PRODUCT SIMULATION FOR THE ENMAP HYPERSPECTRAL SENSORADD **Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Area Monitoring**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Paolo Gamba, Alberto Villa, Antonio Plaza, Jocelyn Chanussot, Jon Atli Benediktsson

View

Paper Code: WE4.T04.1**Paper Number:** 1453**Title:** COREH2O, A DUAL FREQUENCY RADAR SATELLITE FOR COLD REGIONS HYDROLOGYADD **Topic:** Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow**Session:** Active/Passive Microwave Remote Sensing of Terrestrial Snow I

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Helmut Rott, Donald W. Cline, Claude Duguay, Richard Essery, Pierre Etchevers, Irena Hajnsek, Michael Kern, Giovanni Macelloni, Eirik Malnes, Jouni Pulliainen, Simon H. Yueh

View

ADD

Paper Code: FR1.T05.1

Paper Number: 1457

Title: ANALYTICAL MODELING OF OPTICAL POLARIMETRIC IMAGING SYSTEMS

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors

Session: Passive Optical and Hyperspectral Sensors III

Time: Friday, July 29, 08:20 - 10:00

Authors: Lingfei Meng, John Kerekes

View

ADD

Paper Code: TUP.R.2

Paper Number: 1458

Title: A NEWLY REVIVED SATELLITE-BASED GLOBAL AIR-SEA SURFACE TURBULENT FLUXES DATASET AND ITS DEPENDENCE ON THE SSM/I BRIGHTNESS TEMPERATURE

Topic: Oceans: Others

Session: Oceans I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Chung-Lin Shie, Kyle Hilburn

View

ADD

Paper Code: TU1.T02.5

Paper Number: 1460

Title: FUTURE PERSPECTIVES OF ADVANCING MULTIMODAL POLSAR TECHNOLOGY, ITS RAPID WORLDWIDE EXPANSION, AND ITS PLETHORA OF DIVERSIFIED APPLICATIONS

Topic: Invited Sessions: SAR Polarimetry: Theory and Applications

Session: SAR Polarimetry: Theory and Applications I

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Wolfgang-Martin Boerner

View

ADD

Paper Code: WEP.H.8

Paper Number: 1461

Title: MULTI-SOURCES PRECIPITATION ESTIMATION: MITIGATING GAPS OVER RADAR NETWORK COVERAGE

Topic: Atmosphere: Precipitation and Clouds

Session: Advances in Earth Sensing and Applications II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Kibrewossen Tesfagiorgis, Shayesteh E. Mahani, Reza Khanbilvardi

View

ADD

Paper Code: WE3.T07.4

Paper Number: 1462

Title: HIGH RESOLUTION SATELLITE PRECIPITATION ESTIMATE USING CLUSTER ENSEMBLE CLOUD CLASSIFICATION

Topic: Atmosphere: Precipitation and Clouds

Session: Precipitation and Clouds III

Time: Wednesday, July 27, 13:20 - 15:00

Authors: Majid Mahrooghy, Nicholas Younan, Valentine Anantharaj, James Aanstoos

View

ADD

Paper Code: WEP.O.12

Paper Number: 1469

Title: A REGIONAL FY3A-VIRR RADIANCE-BIAS CORRECTION SCHEME FOR ASSIMILATION

Topic: Atmosphere: Weather Prediction and Data Assimilation

Session: Weather Prediction and Data Assimilation II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Jia Liu, Qiu Yin, Baode Chen

ViewADD **Paper Code:** TH3.T10.3**Paper Number:** 1472**Title:** INTERNATIONAL COLLABORATION IN ALOS/GOSAT/GCOM DATA SYSTEMS**Topic:** Invited Sessions: International Developments and Collaborations in Earth Observation Data Systems**Session:** International Developments and Collaborations in Earth Observation Data Systems**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Satoko Miura, Toshiaki Takeshima**View**ADD **Paper Code:** TU4.T03.4**Paper Number:** 1473**Title:** ICE-PHASE PRECIPITATION RETRIEVALS OVER LAND USING COMBINED RADAR / RADIOMETER SATELLITE OBSERVATIONS**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Benjamin Johnson, Gail Skofronick-Jackson**View**ADD **Paper Code:** MOP.Y.8**Paper Number:** 1475**Title:** RETRIEVING WATER-LEAVING REFLECTANCE FROM HJ1 CCD IMAGERY AIDED BY MODIS PRODUCT**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hua Xu, Xingfa Gu, Zhengqiang Li, Li Li, Zhihui Wang, Wanchun Zhang**View**ADD **Paper Code:** MO3.T02.5**Paper Number:** 1477**Title:** ON THE USE OF POLARIMETRIC ORIENTATION FOR POLSAR CLASSIFICATION AND DECOMPOSITION**Topic:** Invited Sessions: Advanced Methods for Polarimetric SAR information extraction**Session:** Advanced Methods for Polarimetric SAR Information Extraction I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Hiroshi Kimura**View**ADD **Paper Code:** WEP.H.3**Paper Number:** 1479**Title:** TREE CROWN CHANGE DETECTION USING AN OBJECT FUZZY BASED APPROACH**Topic:** Land: Land Use and Land Cover Change**Session:** Advances in Earth Sensing and Applications II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Juan Ardila, Wietske Bijker, Valentyn Tolpekin, Alfred Stein**View**ADD **Paper Code:** WEP.P.2**Paper Number:** 1480**Title:** INTERCOMPARISON AND COMBINATION OF SATELLITE RETRIEVED AEROSOL OPTICAL DEPTH OVER LAND**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jie Guang, Yong Xue, Linlu Mei, Yingjie Li, Hui Xu, Xingwei He, Tingting Hou

ViewADD **Paper Code:** TU3.T03.1**Paper Number:** 1481**Title:** Combining Space-based Active and Passive Microwave Observations to Improve Global Snowfall Estimates**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Tristan L'Ecuyer, Norman Wood**View**ADD **Paper Code:** FR2.T08.5**Paper Number:** 1482**Title:** ALTERNATING MINIMIZATION ALGORITHM FOR SHIFTED SPECKLE REDUCTION VARIATIONAL MODEL**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis IV**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Sangwoon Yun, Hyenkyun Woo**View**ADD **Paper Code:** WE3.T08.4**Paper Number:** 1487**Title:** A FAST SEGMENTATION APPROACH OF SAR IMAGE BY FUSING OPTICAL IMAGE**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Huaping Xu, Wei Wang, Xianghua Liu**View**ADD **Paper Code:** WEP.N.11**Paper Number:** 1492**Title:** IMPACT OF SEA SURFACE TEMPERATURE ANOMALY ON TWO GLOBAL WARMING PERIODS IN THE 20TH CENTURY OVER THE ARID CENTRAL ASIA**Topic:** Atmosphere: Others**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jinsong Wang, Feng Wei, Jianying Feng**View**ADD **Paper Code:** WE4.T09.2**Paper Number:** 1494**Title:** Uncertainties of global moderate resolution Leaf Area Index (LAI) products derived from remote sensing data**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Parameter Estimation**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Hongliang Fang, Shanshan Wei, Chongya Jiang, Shunlin Liang**View**ADD **Paper Code:** TUP.A.1**Paper Number:** 1495**Title:** DETECTION AND MONITORING OF SURFACE SUBSIDENCE ASSOCIATED WITH MINING ACTIVITIES IN THE WITBANK COALFIELDS, SOUTH AFRICA, USING DIFFERENTIAL RADAR INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jeanine Engelbrecht, Michael Raymond Inggs**View****Paper Code:** TU2.T10.2**Paper Number:** 1497**Title:** THE IMPACT OF OCEAN SURFACE FEATURES ON THE HIGH RESOLUTION WIND RETRIEVAL FROM SAR

ADD **Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xiaofeng Yang, Xiaofeng Li, Ziwei Li, William Pichel

View

Paper Code: WEP.G.1**Paper Number:** 1504**Title:** Opto-mechanical Structure Design and Modulation Transfer Function Analysis for Remote Sensing InstrumentADD **Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yu-Chuan Lin, Long-Jeng Lee, Sheng-Tsong Chang, Yu-Cheng Cheng, Ting-Ming Huang

View

Paper Code: MOP.X.9**Paper Number:** 1507**Title:** AUTOMATIC CO-REGISTRATION PERFORMANCE OF FULLY POLARIMETRIC SAR IMAGES WITH TEXTURE RELATIONSHIPADD **Topic:** Sensors and Platforms: Active Microwave**Session:** Active Microwave Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Kamolratn Churesampant, Junichi Susaki

View

Paper Code: TUP.C.7**Paper Number:** 1511**Title:** ISAR IMAGING OF UNIFORMLY ROTATING TARGETS VIA PARAMETRIC MATCHING PURSUITADD **Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wei Rao, Gang Li, Xiqin Wang, Xiang-Gen Xia

View

Paper Code: MOP.Q.6**Paper Number:** 1512**Title:** CALCULATION OF CLUMPING INDEX OF MIXED PIXEL AND SCALE ANALYSISADD **Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Qingmiao Ma, Jing Li, Qiang Liu, Qinhuo Liu

View

Paper Code: WE1.T06.2**Paper Number:** 1513**Title:** ASSESSMENT OF TERRASAR-X FOR MAPPING SALT MARSHADD **Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands III**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Yoon-Kyung Lee, Wook Park, Jong-Kuk Choi, Joo-Hyung Ryu, Joong-Sun Won

View

Paper Code: WEP.U.2**Paper Number:** 1514**Title:** A SIMPLIFIED AEROMAGNETIC COMPENSATION MODEL FOR LOW MAGNETISM UAV PLATFORMADD **Topic:** Sensors and Platforms: UAV and Airborne Platforms**Session:** Remote Sensing using Unmanned Aerial Vehicles**Time:** Wednesday, July 27, 17:00 - 18:30

ViewADD **Authors:** Baogang Zhang, Ziqi Guo, Yanchao Qiao**Paper Code:** TU2.T09.1**Paper Number:** 1515**Title:** MARGINALIZED PARTICLE FILTER BASED TRACK-BEFORE-DETECT ALGORITHM FOR SMALL INFRARED TARGET**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Target Detection**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xue Chen, Qi Wen, Sixian Qin, Jianwen Ma**View**ADD **Paper Code:** TUP.I.1**Paper Number:** 1517**Title:** AERIAL TRIANGULATION OVER URBAN AREAS WITH CONTROL POINTS AUTO EXTRACTED FROM EXISTING AT RESULTS**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Urban Areas, Buildings and Roads**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yong Zhang, Tao Ke, Luping Lu**View**ADD **Paper Code:** WE3.T08.5**Paper Number:** 1521**Title:** TEXTURE SEGMENTATION FOR REMOTE SENSING IMAGE BASED ON TEXTURE-TOPIC MODEL**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Hao Feng, Zhiguo Jiang, Xingmin Han**View**ADD **Paper Code:** MOP.M.2**Paper Number:** 1523**Title:** ATOMIC DECOMPOSITION-BASED SAR IMAGING TECHNIQUE**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yesheng Gao, Kaizhi Wang, Xingzhao Liu, Wenxian Yu**View**ADD **Paper Code:** TUP.H.8**Paper Number:** 1528**Title:** COMPARISONS OF FPAR DERIVED FROM GIMMS AVHRR NDVI AND MODIS PRODUCT**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Dailiang Peng, Liangyun Liu, Bing Zhang, Qian Shen**View**ADD **Paper Code:** WE3.T02.3**Paper Number:** 1537**Title:** ANALYSIS OF VOLUMETRIC SCATTERS BASED ON TANDEM-X POLARIMETRIC INTERFEROMETRIC SAR DATA**Topic:** Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X**Session:** Polarimetric Interferometry: Applications with Tandem-X I**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Carlos López-Martínez, Konstantinos Papathanassiou, Alberto Alonso, Xavier Fàbregas**View**ADD **Paper Code:** TU2.T09.2**Paper Number:** 1538**Title:** RADAR MICRO-DOPPLER ANALYSIS AND ROTATION PARAMETER ESTIMATION FOR RIGID TARGETS WITH COMPLICATED MICRO-MOTIONS**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Target Detection**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Peng Lei, Jun Wang, Jinping Sun**View****ADD** **Paper Code:** TUP.F.1**Paper Number:** 1539**Title:** SYNCHRONOUS, ASYNCHRONOUS AND GROUPING ASYNCHRONOUS PARALLEL IMPLEMENTATION FOR N-FINDR ALGORITHMS IN HYPERSPECTRAL REMOTE SENSING IMAGE**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Methods and Efficient Implementations in Hyperspectral Imagery**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenfei Luo, Hao Zhang**View****ADD** **Paper Code:** TU2.T07.4**Paper Number:** 1540**Title:** PROTO-FLIGHT TEST OF THE DUAL-FREQUENCY PRECIPITATION RADAR FOR THE GLOBAL PRECIPITATION MEASUREMENT**Topic:** Invited Sessions: Global Precipitation Mission**Session:** Global Precipitation Mission**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Kinji Furukawa, Masahiro Kojima, Takeshi Miura, Yasutoshi Hyakusoku, Toshio Iguchi, Hiroshi Hanado, Katsuhiro Nakagawa, Minoru Okumura**View****ADD** **Paper Code:** WE3.T09.3**Paper Number:** 1541**Title:** COMPARISON OF GREEN VEGETATION FRACTION RETRIEVALS FROM SPOT-VEGETATION AND MSG-SEVIRI SENSORS**Topic:** Invited Sessions: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Session:** Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Bernard Lacaze, Aydin Ertürk**View****ADD** **Paper Code:** MOP.G.5**Paper Number:** 1544**Title:** LEARNING BASED DECOMPOSITION FOR POLARIMETRIC SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Chu He, Qian Feng, Ming Liu, Xiaonian Liu, Mingsheng Liao**View****ADD** **Paper Code:** FR2.T10.4**Paper Number:** 1545**Title:** EXPERIMENTAL STUDY OF RADIO-FREQUENCY INTERFERENCE DETECTION ALGORITHMS IN MICROWAVE RADIOMETRY**Topic:** Invited Sessions: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry**Session:** Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Jose Miguel Tarongi, Giuseppe Forte, Adriano Camps**View****ADD** **Paper Code:** FR1.T03.3**Paper Number:** 1548**Title:** CHARACTERISTICS AND PERFORMANCES OF THE ALTIKA RADIOMETER OF SARAL MISSION**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance II**Time:** Friday, July 29, 08:20 - 10:00

[View](#)ADD

Authors: Nicolas Taveneau, Frederic Robert, Jacques Richard, Nathalie Steunou, Pierre Sengenes

Paper Code: MOP.F.8

Paper Number: 1549

Title: An Analysis of the Eigenvalues Method for Polarimetric SAR Image Classification

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR I

Time: Monday, July 25, 17:00 - 18:30

Authors: Shuiping Gou, Xin Qiao, L.C. Jiao

[View](#)ADD

Paper Code: TU4.T07.4

Paper Number: 1552

Title: A SIMULATION STUDY OF ADAPTIVE SCAN FOR NEXT-GENERATION SPACEBORNE PRECIPITATION RADAR

Topic: Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future

Session: Remote Sensing of Precipitation from Space - The Past, Present and Future II

Time: Tuesday, July 26, 15:20 - 17:00

Authors: Toshiaki Kozu, Toyoshi Shimomai

[View](#)ADD

Paper Code: TH4.T01.5

Paper Number: 1555

Title: A STUDY ON THE RESOLUTION LIMIT OF POLARIMETRIC RADAR AND THE PERFORMANCE OF POLARIMETRIC BANDWIDTH EXTRAPOLATION TECHNIQUE

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR III

Time: Thursday, July 28, 15:20 - 17:00

Authors: Kei Suwa, Toshio Wakayama, Masafumi Iwamoto

[View](#)ADD

Paper Code: FR2.T02.4

Paper Number: 1556

Title: 4-Component Scattering Power Decomposition with Phase Rotation of Coherency Matrix

Topic: Invited Sessions: Mitigaing Terrain Effects on PolSAR Classification

Session: Mitigating Terrain Effects on PolSAR Classification

Time: Friday, July 29, 10:20 - 12:00

Authors: Gulab Singh, Yoshio Yamaguchi, Sang-Eun Park

[View](#)ADD

Paper Code: WEP.C.2

Paper Number: 1557

Title: A NOVEL APPROACH FOR SATELLITE IMAGE CLASSIFICATION USING LOCAL SELF-SIMILARITY

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Classification I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Huaxin Zheng, Huijie Zhao, Xiao Bai

[View](#)ADD

Paper Code: MOP.J.6

Paper Number: 1558

Title: BREAKING THROUGH TIME PROCESSING FRONTIERS USING GRAPHICAL PROCESSORS: AN APPLICATION TO CORRELATION AND RESAMPLING

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30

Authors: François Bignalet-Cazalet, Jean-Marc Delvit, Stéphane May

[View](#)ADD **Paper Code:** TU3.T04.5**Paper Number:** 1560**Title:** BIOMASS, COREH2O, PREMIER: ESA'S CANDIDATE 7TH EARTH EXPLORER MISSIONS**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments III**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Michael Kern, Marco Arcioni, Paolo Bensi, Jean-Loup Bezy, Bernardo Carnicero, Malcolm Davidson, Mark Drinkwater, Franco Fois, Antonio Gabriele, Nico Gebert, Roger Haagmans, Florence Heliere, Paul Ingmann, Ville Kangas, Stefan Kraft, Arnaud Lecuyot, Chung-Chi Lin, Joerg Langen, Roland Meynart, Andrea Perrera, Dirk Schuettemeyer, Klaus Scipal, Pierluigi Silvestrin[View](#)ADD **Paper Code:** TU3.T02.1**Paper Number:** 1566**Title:** A K-Wishart Markov Random Field model for clustering of polarimetric SAR imagery**Topic:** Invited Sessions: Signal processing techniques for for POL-SAR and POL-inSAR applications**Session:** Signal Processing Techniques for POLSAR and POLINSAR Applications**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Vahid Akbari, Gabriele Moser, Anthony Paul Doulgeris, Stian Normann Anfinsen, Torbjørn Eltoft, Sebastiano B. Serpico[View](#)ADD **Paper Code:** TUP.S.3**Paper Number:** 1567**Title:** SUBSIDENCE REVEALED BY PSI TECHNIQUE IN THE JAKARTA CITY, INDONESIA**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Alex Hay-Man Ng, Linlin Ge, Kui Zhang, Xiaojing Li[View](#)ADD **Paper Code:** WE4.T05.4**Paper Number:** 1568**Title:** INTERACTION BETWEEN VEGETATION AND HYDROLOGY: ESTIMATES FROM MODIS-FAPAR**Topic:** Land: Forests and Vegetation**Session:** Agricultural Applications**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Guido Ceccherini, Fabio Castelli[View](#)ADD **Paper Code:** WEP.P.3**Paper Number:** 1569**Title:** AN ADVANCED SYNERGETIC ALGORITHM FOR AEROSOL OPTICAL DEPTH RETRIEVAL FROM HJ-1A HSI AND TERRA MODIS DATA BASED ON MUTUAL INFORMATION**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yingjie Li, Yong Xue, Xingwei He, Jie Guang, Ying Wang, Linlu Mei, Hui Xu[View](#)ADD **Paper Code:** TUP.H.2**Paper Number:** 1571**Title:** BRDF OF BADAIN JARAN DESERT RETRIEVAL USING LANDSAT TM/ETM+ AND ASTER GDEM DATA**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yuhuan Zhang, Bo Zhong, Qinhuo Liu, Hua Li, Lin Sun

- | | |
|---|--|
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: WE3.T03.1 Paper Number: 1572</p> <p>Title: COMPARSION OF TRMM PR V6 AND V7 FOCUSING HEAVY RAINFALL</p> <p>Topic: Atmosphere: Precipitation and Clouds</p> <p>Session: Tropical Rainfall Measuring Mission</p> <p>Time: Wednesday, July 27, 13:20 - 15:00</p> <p>Authors: Shinta Seto, Toshio Iguchi, Robert Meneghini</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: MOP.D.8 Paper Number: 1573</p> <p>Title: SAR SUPER RESOLUTION VIA MULTI-DICTIONARY</p> <p>Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR</p> <p>Session: High Resolution SAR</p> <p>Time: Monday, July 25, 17:00 - 18:30</p> <p>Authors: Chu He, Longzhu Liu, Ming Liu, Qian Feng, Mingsheng Liao</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: TH4.T01.2 Paper Number: 1574</p> <p>Title: BINARY PARTITION TREE AS A POLARIMETRIC SAR DATA REPRESENTATION IN THE SPACE-TIME DOMAIN</p> <p>Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR</p> <p>Session: Polarimetric SAR III</p> <p>Time: Thursday, July 28, 15:20 - 17:00</p> <p>Authors: Alberto Alonso-González, Carlos López-Martínez, Philippe Salembier</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: MOP.L.2 Paper Number: 1580</p> <p>Title: HIGH-RESOLUTION SATELLITE IMAGE CLASSIFICATION AND SEGMENTATION USING LAPLACIAN GRAPH ENERGY</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Image Processing</p> <p>Session: Image Segmentation and Object Detection</p> <p>Time: Monday, July 25, 17:00 - 18:30</p> <p>Authors: Meng Zhao, Xiao Bai</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: FR2.T10.5 Paper Number: 1581</p> <p>Title: Protection of 6-7 GHz band spaceborne microwave radiometer from interferences to derive sea surface temperature and others</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Information Extraction</p> <p>Session: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry</p> <p>Time: Friday, July 29, 10:20 - 12:00</p> <p>Authors: Korehiro Maeda, Akira Shibata, Keiji Imaoka</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: TU4.T01.2 Paper Number: 1582</p> <p>Title: EXPLOITATION OF TEMPORARY COHERENT SCATTERERS IN SQUEESAR ANALYSES</p> <p>Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR</p> <p>Session: Time-Series and Stacking Interferometry II</p> <p>Time: Tuesday, July 26, 15:20 - 17:00</p> <p>Authors: Alessandro Ferretti, Alfio Fumagalli, Fabrizio Novali, Claudio Prati, Fabio Rocca, Alessio Rucci</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <p>ADD <input type="checkbox"/></p> | <p>Paper Code: MOP.H.2 Paper Number: 1585</p> <p>Title: OBJECT ORIENTED CLASSIFICATION OF HIGH SPATIAL IMAGERY USING GABOR TEXTURES AND COMPOSITE KERNELS</p> <p>Topic: Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing</p> |

Session: High Resolution Optical Sensing II

Time: Monday, July 25, 17:00 - 18:30

Authors: Lian-Zhi Huo, Ping Tang, Hong-Gan Wu

View

ADD

Paper Code: MOP.V.4

Paper Number: 1586

Title: INTERNAL CALIBRATION STRATEGIES FOR SPACE-BORNE SYNTHETIC APERTURE RADARS WITH ACTIVE PHASED ARRAY ANTENNAS

Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration

Session: SAR Missions and Instruments I

Time: Monday, July 25, 17:00 - 18:30

Authors: Eduardo Makhoul, Antoni Broquetas, Josep Closa, Paula Saameno

View

ADD

Paper Code: WE2.T04.3

Paper Number: 1587

Title: A KU-BAND GEOSYNCHRONOUS SYNTHETIC APERTURE RADAR MISSION ANALYSIS WITH MEDIUM TRANSMITTED POWER AND MEDIUM-SIZED ANTENNA

Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration

Session: SAR Calibration

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Josep Ruiz, Antoni Broquetas, Andrea Monti-Guarnieri, Fabio Rocca

View

ADD

Paper Code: WEP.I.2

Paper Number: 1588

Title: MONITORING FLOODS IN THE LOWER BERMEJO RIVER BASIN USING MULTIFREQUENCY MICROWAVE SIGNATURES

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Analysis and Applications

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Cristina Vittucci, Paolo Ferrazzoli, Leila Guerriero, Rachid Rahmoune, Veronica Daniela Barraza Bernadas, Francisco Grings, Haydee Karszenbaum

View

ADD

Paper Code: MOP.H.3

Paper Number: 1589

Title: EXTENDED THREE-STEP FOCUSING ALGORITHM FOR SLIDING SPOTLIGHT AND TOPS DATA IMAGE FORMATION

Topic: Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing

Session: High Resolution Optical Sensing II

Time: Monday, July 25, 17:00 - 18:30

Authors: Wei Yang, Chunsheng Li, Jie Chen, Pengbo Wang

View

ADD

Paper Code: MO3.T05.4

Paper Number: 1590

Title: SUPPORT VECTOR MACHINE BASED DECISION TREE FOR VERY HIGH RESOLUTION MULTISPECTRAL FOREST MAPPING

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change I

Time: Monday, July 25, 13:20 - 15:00

Authors: Petra Krahwinkler, Juergen Rossmann, Bjoern Sondermann

View

ADD

Paper Code: MOP.J.1

Paper Number: 1591

Title: MULTIREOLUTION INPAINTING FOR RECONSTRUCTION OF MISSING DATA IN VHR IMAGES

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30

Authors: Luca Lorenzi, Farid Melgani, Grégoire Mercier

ViewADD **Paper Code:** WE2.T05.4**Paper Number:** 1592**Title:** TEMPORAL TRENDS OF MICROWAVE EMISSION FROM FOREST AREAS OBSERVED FROM SATELLITE**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Simonetta Paloscia, Emanuele Santi, Simone Pettinato, Marco Brogioni, Paolo Ferrazzoli, Rachid Rahmoune**View**ADD **Paper Code:** MOP.Q.11**Paper Number:** 1595**Title:** Changes of vegetation biomass, species diversity and NDVI across the ground temperature of permafrost in the Datong river source region on the northeastern edge of the Qinghai-Tibet plateau**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xiumin Zhang, Yu Sheng, Jichun Wu, Jing Li, Ji Chen**View**ADD **Paper Code:** WEP.P.4**Paper Number:** 1598**Title:** MULTI-SCALE AEROSOL RETRIEVAL OVER LAND FROM SATELLITE DATA AND ITS APPLICATION ON HAZE MONITORING**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xingwei He, Yong Xue, Yingjie Li, Jie Guang, Ying Wang, Linlu Mei, Hui Xu**View**ADD **Paper Code:** TH4.T01.3**Paper Number:** 1601**Title:** COMPACT POLARIMETRY POTENTIALS**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR III**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** My-Linh Truong-Loi, Pascale Dubois-Fernandez, Eric Pottier**View**ADD **Paper Code:** WEP.G.2**Paper Number:** 1609**Title:** MINIMUM ERROR LAND COVER SEPARABILITY ANALYSIS AND CLASSIFICATION OF MODIS TIME SERIES DATA**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Etienne Ackermann, Trienko Grobler, Gusti van Zyl, Karen Steenkamp, Jan C. Olivier**View**ADD **Paper Code:** MO4.T09.1**Paper Number:** 1615**Title:** DETECTION OF LAND-COVER TRANSITIONS IN MULTITEMPORAL IMAGES WITH ACTIVE-LEARNING BASED COMPOUND CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Change Detection and Multitemporal Image Analysis II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Begüm Demir, Francesca Bovolo, Lorenzo Bruzzone**View**ADD **Paper Code:** WE2.T06.4**Paper Number:** 1617**Title:** MULTI-PARAMETERS THERMAL ANOMALIES BEFORE NEW ZEALAND MS7.0 EARTHQUAKE**Topic:** Environmental Applications: Geology and Solid Earth

Session: Geology and Solid Earth III**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Qin Kai, Wu Lixin, Guo Guangmeng**View****ADD** **Paper Code:** FR1.T08.5**Paper Number:** 1618**Title:** HJ-1A/B CCD IMAGERY GEOMETRIC DISTORTIONS AND PRECISE GEOMETRIC CORRECTION ACCURACY ANALYSIS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis III**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Chang-Miao Hu, Ping Tang**View****ADD** **Paper Code:** MO3.T07.1**Paper Number:** 1619**Title:** UNSUPERVISED CLASSIFICATION AND SPECTRAL UNMIXING FOR SUB-PIXEL LABELLING**Topic:** Invited Sessions: Superresolution and sub-pixel classification**Session:** Superresolution and Sub-Pixel Classification**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Alberto Villa, Jocelyn Chanussot, Jon Atli Benediktsson, Christian Jutten**View****ADD** **Paper Code:** TU4.T03.2**Paper Number:** 1620**Title:** A COMBINED RADAR/RADIOMETER RETRIEVAL FOR PRECIPITATION**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Christian Kummerow, Stephen (Joe) Munchak**View****ADD** **Paper Code:** FR3.T03.3**Paper Number:** 1621**Title:** A RADIOMETER CONCEPT TO RETRIEVE 3-D RADIOMETRIC EMISSION FROM ATMOSPHERIC TEMPERATURE AND WATER VAPOR DENSITY**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance III**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Xavier Bosch, Hyuk Park, Adriano Camps, Steven C. Reising, Swaroop Sahoo, Sharmila Padmanabhan, Nereida Rodriguez-Alvarez, Isaac Ramos-Perez, Enric Valencia**View****ADD** **Paper Code:** WE4.T03.1**Paper Number:** 1622**Title:** A SPACEBORNE DOPPLER RADAR FOR 3D WINDS MAPPING INSIDE CLOUDS**Topic:** Sensors and Platforms: Active Microwave**Session:** New Active Microwave Instruments**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Nicolas Taveneau, Eric Caubet, Jacques Richard, Jerome Lorenzo, Vincent Albuys, Jean-Claude Souyris, Nicolas Viltard, Yvon Lemaitre**View****ADD** **Paper Code:** TU3.T07.3**Paper Number:** 1623**Title:** THE EVOLUTION OF MICROWAVE RAINFALL ALGORITHMS – THE SENSITIVITY TO RADIOMETER CALIBRATION**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future I

- View**
ADD
- Time:** Tuesday, July 26, 13:20 - 15:00
Authors: Christian Kummerow
- Paper Code:** FR3.T01.5 **Paper Number:** 1625
Title: FAST FACTORIZED BACKPROJECTION ALGORITHM FOR UWB BISTATIC SAR IMAGE RECONSTRUCTION
Topic: Advances in Analysis Techniques (Theoretical): Bistatic SAR
Session: Bistatic SAR II
Time: Friday, July 29, 13:20 - 15:00
Authors: Viet Thuy Vu, Thomas K. Sjögren, Mats I. Pettersson
- View**
ADD
- Paper Code:** WEP.X.2 **Paper Number:** 1628
Title: Challenges to Seamless Data Discovery and Access to Remote Sensing Data
Topic: Data Management, Dissemination, Education and Policy: Data Management and Systems
Session: Data Management, Dissemination, Education and Policy
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Michael Burnett, Christopher Lynnes
- View**
ADD
- Paper Code:** TU4.T04.2 **Paper Number:** 1631
Title: IMPACT OF THE ANTENNA STABILITY ON THE DOPPLER CENTROID FREQUENCY
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: Airborne SAR
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Andrea Recchia, Andrea Monti-Guarnieri, Nuno Miranda, Fabrice Collard, Davide D'Aria, Davide Giudici
- View**
ADD
- Paper Code:** TUP.M.7 **Paper Number:** 1634
Title: COMPARISON OF A LAND SURFACE MODEL AND PALMER DROUGHT SEVERITY INDEX IN MONITORING DROUGHT IN CHINA
Topic: Land: Natural Disaster / Land Slide
Session: Remote Sensing of Land Deformation and Floods
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Liang Zhang, Huqiang Zhang, Qiang Zhang, Jing Wang
- View**
ADD
- Paper Code:** MOP.C.1 **Paper Number:** 1636
Title: COMPARISON OF COVAMCOH AND ILU IMAGE PRODUCTS FOR INTERFEROMETRIC VERY HIGH RESOLUTION SAR IMAGE PAIRS
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: High Resolution and Multi-Channel SAR
Time: Monday, July 25, 17:00 - 18:30
Authors: Karsten Schulz, Dominik Brunner, Markus Boldt
- View**
ADD
- Paper Code:** TU2.T07.2 **Paper Number:** 1637
Title: A PARAMETRIC RAINFALL RETRIEVAL ALGORITHM FOR GPM
Topic: Invited Sessions: Global Precipitation Mission
Session: Global Precipitation Mission
Time: Tuesday, July 26, 10:20 - 12:00
Authors: David Randel, Christian Kummerow, Wesley Berg
- View**
ADD
- Paper Code:** TU1.T04.1 **Paper Number:** 1639
Title: A NOVEL APPROACH TO THE AUTOMATIC DETECTION OF SUBSURFACE FEATURES IN PLANETARY RADAR SOUNDER SIGNALS

ADD

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Student Paper Contest I
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Adamo Ferro, Lorenzo Bruzzone

View

Paper Code: TH1.T02.1 **Paper Number:** 1640
Title: RADARSAT

ADD

Topic: Invited Sessions: RADARSAT
Session: RADARSAT I
Time: Thursday, July 28, 08:20 - 10:00
Authors: Surendra Parashar, Satish Srivastava, Ahmed Mahmood, Denis Auger, Guy Séguin, Alain Carrier

View

Paper Code: TH1.T02.5 **Paper Number:** 1641
Title: SCIENCE AND OPERATIONAL APPLICATIONS RESEARCH FOR RADARSAT-2

ADD

Topic: Invited Sessions: RADARSAT
Session: RADARSAT I
Time: Thursday, July 28, 08:20 - 10:00
Authors: Stephane Chalifoux

View

Paper Code: TU4.T06.4 **Paper Number:** 1646
Title: MODELLING COASTAL PROCESSES BY MEANS OF INNOVATIVE INTEGRATION OF REMOTE SENSING TIME SERIES ANALYSIS

ADD

Topic: Environmental Applications: Coastal and Wetlands
Session: Coastal and Wetlands I
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Andrea Taramelli, Emiliana Valentini, Mariangela Dejana, Francesco Zucca, Stefania Mandrone

View

Paper Code: TU2.T04.1 **Paper Number:** 1656
Title: FIRST RESULT OF BISTATIC FORWARD-LOOKING SAR WITH STATIONARY TRANSMITTER

ADD

Topic: Advances in Analysis Techniques (Theoretical): Bistatic SAR
Session: Student Paper Contest II
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Junjie Wu, Yulin Huang, Jianyu Yang, Wenchao Li, Haiguang Yang

View

Paper Code: WE2.T06.3 **Paper Number:** 1660
Title: INVESTIGATING THE SEISMIC CYCLE IN ITALY BY MULTITEMPORAL ANALYSIS OF ALOS AND ERS/ENVISAT DINSAR DATA SETS

ADD

Topic: Environmental Applications: Geology and Solid Earth
Session: Geology and Solid Earth III
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Cristiano Tolomei, Simone Atzori, John Peter Merryman, Giuseppe Pezzo, Salvi Stefano

View

Paper Code: FR1.T05.4 **Paper Number:** 1663
Title: ESA'S GMES SENTINEL-4 AND -5

ADD

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors
Session: Passive Optical and Hyperspectral Sensors III
Time: Friday, July 29, 08:20 - 10:00
Authors: J.-L. Bézy, G. Bazalgette Courrèges-Lacoste, Paul Ingmann, J. Langen, B. Sierk, H Stark, B. Veihelmann

[View](#)ADD **Paper Code:** WEP.I.3**Paper Number:** 1668**Title:** PREPARATION OF THE ECMWF SOIL MOISTURE ANALYSIS TO THE ASSIMILATION OF SMOS DATA**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Joaquin Munoz Sabater, Patricia de Rosnay, Matthias Drusch, Mohamed Dahoui, Susanne Mecklenburg[View](#)ADD **Paper Code:** WE3.T09.4**Paper Number:** 1669**Title:** LAND SURFACE ALBEDO AND DOWNWELLING SHORTWAVE RADIATION FROM MSG GEOSTATIONARY SATELLITE: METHOD FOR RETRIEVAL, VALIDATION, AND APPLICATION**Topic:** Invited Sessions: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Session:** Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Dominique Carrer, Jean-Louis Roujean, Olivier Hautecoeur, Jean-Christophe Calvet, Jure Cedilnik, Laurent Franchistéguy, Bernhard Geiger, Sébastien Lafont, Jean-François Mahfouf, Catherine Meurey, Isabel Trigo[View](#)ADD **Paper Code:** TH1.T09.2**Paper Number:** 1670**Title:** GAUSSIAN PROCESS REGRESSION WITHIN AN ACTIVE LEARNING SCHEME**Topic:** Invited Sessions: New trends in machine learning for remote sensing**Session:** New Trends in Machine Learning for Remote Sensing**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Edoardo Pasolli, Farid Melgani[View](#)ADD **Paper Code:** MO3.T06.5**Paper Number:** 1671**Title:** A Reconfigurable Stepped Frequency GPR (GPR-R)**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Filippo Parrini, Raffaele Persico, Massimiliano Pieraccini, Alessandro Spinetti, Giovanni Macaluso, Matteo Fratini, Devis Dei, Guido Manacorda[View](#)ADD **Paper Code:** TH4.T09.5**Paper Number:** 1674**Title:** IMPROVING ACTIVE LEARNING METHODS USING SPATIAL INFORMATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification and Change Detection**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Edoardo Pasolli, Farid Melgani, Devis Tuia, Fabio Pacifici, William J. Emery[View](#)ADD **Paper Code:** MOP.S.7**Paper Number:** 1676**Title:** LAND USE IMAGE CLASSIFICATION THROUGH OPTIMUM-PATH FOREST CLUSTERING**Topic:** Land: Others**Session:** Land Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Rodrigo Pisani, Paulina Riedel, Mateus Ferreira, Mara Marques, Rodrigo Mizobe, Joao Papa

[View](#)ADD **Paper Code:** MOP.N.5**Paper Number:** 1677**Title:** LANDSCAPE CHANGE AND HUMAN ACTIVITY ANALYSIS ON DESERTIFICATION PROCESS IN NORTHERN CHINA**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Lihua Zhou, Guojing Yang[View](#)ADD **Paper Code:** TH2.T09.4**Paper Number:** 1683**Title:** BEST MERGE REGION GROWING WITH INTEGRATED PROBABILISTIC CLASSIFICATION FOR HYPERSPECTRAL IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Yuliya Tarabalka, James C. Tilton[View](#)ADD **Paper Code:** TUP.D.2**Paper Number:** 1684**Title:** SCALABLE SEMI-SUPERVISED CLASSIFICATION OF HYPERSPECTRAL REMOTE SENSING DATA WITH SPECTRAL AND SPATIAL INFORMATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Mingmin Chi, Jun Li, Jiangfeng Bao, Jon Atli Benediktsson[View](#)ADD **Paper Code:** WEP.R.3**Paper Number:** 1686**Title:** SIMULATION ON THE RELATIONSHIP BETWEEN LAND USE/LAND COVER AND THE SURFACE RUNOFF IN SONGHUABA WATER SOURCE REGION**Topic:** Environmental Applications: Others**Session:** Environmental Applications I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ming Dong, Zhengtao Shi, Huai Su, Yong Liu, Wenxiang Zhang[View](#)ADD **Paper Code:** TH4.T09.1**Paper Number:** 1689**Title:** CLASSIFICATION USING EXTENDED MORPHOLOGICAL ATTRIBUTE PROFILES BASED ON DIFFERENT FEATURE EXTRACTION TECHNIQUES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification and Change Detection**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Stijn Peeters, Prashanth Reddy Marpu, Jon Atli Benediktsson, Mauro Dalla Mura[View](#)ADD **Paper Code:** WE1.T07.4**Paper Number:** 1693**Title:** IDENTIFICATION OF RAIN/ICE MIXTURE FROM DUAL POLARIZATION WEATHER RADAR**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** S. Lim, Venkatachalam Chandrasekar[View](#)ADD **Paper Code:** WE2.T07.1**Paper Number:** 1695**Title:** VERTICALLY POINTING RADAR REFLECTIVITY UNCERTAINTIES AND THEIR IMPACT ON RETRIEVED RAINDROP SIZE DISTRIBUTION PARAMETERS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds II

Time: Wednesday, July 27, 10:20 - 12:00**Authors:** Christopher Williams**View****ADD** **Paper Code:** TUP.X.9**Paper Number:** 1698**Title:** AIRBORNE REMOTE OBSERVATIONS OF L-BAND RADIO FREQUENCY INTERFERENCE AND IMPLICATIONS FOR SATELLITE MISSIONS**Topic:** Land: Soils and Soil Moisture**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Charles Laymon, Karthik Srinivasan, Ashutosh Limaye**View****ADD** **Paper Code:** WE3.T06.3**Paper Number:** 1700**Title:** SPECTRAL MAPPING CAPABILITIES OF SEDIMENTARY ROCKS USING HYPERSPECTRAL DATA IN SICILY, ITALY**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth IV**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Paolo Villa, Monica Pepe, Mirco Boschetti, Riccardo De Paulis**View****ADD** **Paper Code:** WEP.W.3**Paper Number:** 1703**Title:** RECONFIGURABLE REAL-TIME OPTRONIC PROCESSOR FOR ALTITUDE AND LOOK ANGLE ADAPTABILITY FOR ENVISAT/ASAR SCENE OBSERVATION**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Missions and Instruments I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Alain Bergeron, Linda Marchese, Bernd Harnisch, Martin Suess, Michel Doucet, Pascal Bourqui, Mathieu Legros, Nichola Desnoyers, Ludovic Guillot, Luc Mercier, Maxime Savard, Anne Martel, François Châteauneuf**View****ADD** **Paper Code:** TH1.T01.2**Paper Number:** 1705**Title:** ACCURACY ASSESSMENT OF FIRST CALIBRATED TANDEM-X DEM**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High and Low Resolution SAR / InSAR**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Astrid Gruber, Martin Huber, Birgit Wessel, Markus Breunig**View****ADD** **Paper Code:** WE1.T03.4**Paper Number:** 1706**Title:** THE CANADIAN SCIENCE AND APPLICATIONS PLAN FOR THE SOIL MOISTURE ACTIVE AND PASSIVE MISSION**Topic:** Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications**Session:** NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Stephane Belair**View****ADD** **Paper Code:** FR4.T08.4**Paper Number:** 1708**Title:** DETECTION OF VEHICLES IN SHADOW AREAS USING COMBINED HYPERSPECTRAL AND LIDAR DATA**Topic:** Invited Sessions: Hyperspectral Detection of Difficult Targets**Session:** Hyperspectral Detection of Difficult Targets**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Michal Shimoni, Gustav Tolt, Christiaan Perneel, Jorgen Ahlberg

[View](#)ADD **Paper Code:** TU3.T03.4**Paper Number:** 1709**Title:** A Study of Polarization Features in Bistatic Scattering from Rough Surfaces**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Joel Johnson[View](#)ADD **Paper Code:** TU2.T05.5**Paper Number:** 1711**Title:** GLOBAL CLUMPING INDEX MAP DERIVED FROM MODIS BRDF PRODUCTS**Topic:** Land: Forests and Vegetation**Session:** Vegetation Structure and Inventory I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Liming He, Jing Chen, Jan Pisek, Crystal Schaaf, Alan Strahler[View](#)ADD **Paper Code:** TH2.T10.2**Paper Number:** 1712**Title:** OBSERVING OCEAN SURFACE WIND AND STRESS BY SCATTEROMETER CONSTELLATION**Topic:** Invited Sessions: Spacebased Observation of Ocean Surface Wind and Stress**Session:** Spacebased Observation of Ocean Surface Wind and Stress**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** W. Timothy Liu, Wenqing Tang, Xiaosu Xie[View](#)ADD **Paper Code:** MO4.T03.4**Paper Number:** 1714**Title:** SOIL MOISTURE RETRIEVAL OVER LOW-VEGETATION SURFACES USING TIME-SERIES RADAR OBSERVATIONS AND A LOOKUP TABLE REPRESENTATION OF FORWARD SCATTERING**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture from Microwave Time Series**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Seung-Bum Kim, Shaowu Huang, Leung Tsang, Joel Johnson, Eni Njoku[View](#)ADD **Paper Code:** FR3.T03.2**Paper Number:** 1716**Title:** CALIBRATION AND PERFORMANCE OF THE HAMSr INSTRUMENT DURING THE NASA GRIP CAMPAIGN**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance III**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Boon Lim, Shannon Brown, Richard Denning, Pekka Kangaslahti, Bjorn Lambrigtsen, Jordan Tanabe, Alan Tanner[View](#)ADD **Paper Code:** MOP.R.3**Paper Number:** 1717**Title:** EFFECT OF RADAR MEASUREMENT ERROR ON THE DETECTION OF TRANSIENT INLAND WATER BODIES**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Seung-Bum Kim, Richard West, Eni Njoku[View](#)**Paper Code:** FR1.T07.4**Paper Number:** 1718**Title:** CHARACTERIZATION OF AEROSOLS BASED ON THE SIMULTANEOUS MEASUREMENTS

ADD **Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Makiko Nakata, Takuma Yokomae, Toshiyuki Fujito, Itaru Sano, Sonoyo Mukai

View

ADD **Paper Code:** MOP.K.7**Paper Number:** 1720**Title:** MANAGING MASSIVE REMOTE SENSING DATA IN A DATABASE: USING A PURE OBJECT DATABASE AS A SOLUTION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** David Gallaher, Glenn Grant

View

ADD **Paper Code:** TU4.T03.1**Paper Number:** 1721**Title:** ALL-WEATHER WIND VECTOR MEASUREMENTS FROM INTERCALIBRATED ACTIVE AND PASSIVE MICROWAVE SATELLITE SENSORS**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Thomas Meissner, Lucrezia Ricciardulli, Frank Wentz

View

ADD **Paper Code:** TH1.T10.2**Paper Number:** 1723**Title:** SEA ICE CHARACTERISTICS IN THE SOUTHERN REGION OF OKHOTSK SEA OBSERVED BY X- AND L- BAND SAR**Topic:** Oceans: Sea Ice**Session:** Sea Ice II**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Hiroyuki Wakabayashi, Shoji Sakai, Kazuki Nakamura, Fumihiko Nishio

View

ADD **Paper Code:** WE4.T06.3**Paper Number:** 1725**Title:** MINERAL INDEX MAPS OF THE SOUTHERN NAMIBIA USING HYMAP AND ASTER DATA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth V**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Shoko Oshigami, Tatsumi Uezato, Yasushi Yamaguchi, Dr. Yessy Arvelyna, Atsushi Momose, Yuu Kawakami, Taro Yajima, Shuichi Miyatake, Anna Nguno

View

ADD **Paper Code:** TUP.R.6**Paper Number:** 1727**Title:** A NOVEL METHOD TO ESTIMATE UNDERWATER MARINE CULTIVATION AREA BY USING SAR POLARIMETRIC ENTROPY**Topic:** Oceans: Others**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Eun-Sung Won, Kazuo Ouchi

View

ADD **Paper Code:** WE1.T01.5**Paper Number:** 1728**Title:** Potential assessment of SAR in compact and full polarimetry mode for snow detection**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLSAR Applications

ViewADD **Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Gulab Singh, Yoshio Yamaguchi, Gopalan Venktaraman, Sang-Eun Park**Paper Code:** WEP.F.2**Paper Number:** 1729**Title:** GRAPHICS HARDWARE-BASED ALGORITHM FOR LARGE SCALE TERRAIN RENDERING**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hao Liu, Fuzhou Duan, Wenji Zhao, Liliang Pan, Wei Cao, Huili Gong**View**ADD **Paper Code:** WE3.T04.2**Paper Number:** 1730**Title:** MOISTURE & ROUGHNESS ESTIMATION ALGORITHM OVER PERMAFROST AREA**Topic:** Land: Soils and Soil Moisture**Session:** Freeze-Thaw and Soil Moisture**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Manabu Watanabe, Keiji Kushida, Koichiro Harada, Masami Fukuda, Motoyuki Sato**View**ADD **Paper Code:** WE1.T01.4**Paper Number:** 1731**Title:** POLARIMETRIC OBSERVATION FOR RICE FIELD BY RADARSAT-2 AND ALOS/PALSAR**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLSAR Applications**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Chinatsu Yonezawa, Takahiro Imai, Daisuke Kunii, Manabu Watanabe, Genya Saito**View**ADD **Paper Code:** WEP.E.6**Paper Number:** 1732**Title:** SHARING AND REUSING GEOGRAPHY MODELS VIA MODEL EXECUTION ENGINE**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xiaolin Wang, Hui Li, Hao Deng, Hongqiang Mao, Yingwei Luo**View**ADD **Paper Code:** TUP.L.5**Paper Number:** 1734**Title:** NECESSITY ANALYSIS OF ECHO GENERATION IN SAR IMAGING SIMULATION FOR FOREST APPLICATION**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hanwei Sun, Cheng Hu, Tao Zeng, Teng Long**View**ADD **Paper Code:** TUP.K.6**Paper Number:** 1737**Title:** EVALUATION OF PADDY YIELD AND PROTEIN ESTIMATION METHODS BASED ON VARIOUS VEGETATION INDICES, NDSI AND PLS USING AN AIRBORNE HYPERSPECTRAL SENSOR AISA IN SHONAI PLAIN, YAMAGATA, JAPAN**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I**Time:** Tuesday, July 26, 17:00 - 18:30

[View](#)ADD

Authors: Shinya Odagawa, Kuniaki Uto, Yukio Kosugi, Genya Saito, Yuka Sasaki, Kunio Oda, Masatane Kato

Paper Code: WEP.D.1

Paper Number: 1741

Title: SIMULTANEOUSLY RETRIEVAL OF AEROSOL OPTICAL DEPTH AND SURFACE ALBEDO WITH FY-2 GEOSTATIONARY DATA

Topic: Invited Sessions: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products

Session: Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Ying Wang, Yong Xue, Jie Guang, Linlu Mei, Tingting Hou, Yingjie Li, Hui Xu

[View](#)ADD

Paper Code: WEP.W.4

Paper Number: 1742

Title: A GENERAL SENSOR WEB RESOURCE ONTOLOGY FOR ATMOSPHERIC OBSERVATION

Topic: Sensors and Platforms: Others

Session: Missions and Instruments I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Chao Wang, Nengcheng Chen, Chuli Hu, Songhua Yan, Wei Wang

[View](#)ADD

Paper Code: WE3.T09.5

Paper Number: 1743

Title: Prior information supported aerosol optical depth retrieval using FY2D data

Topic: Invited Sessions: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products

Session: Geophysical Parameters Retrieval from Geostationary Satellites Data: Algorithms and Products

Time: Wednesday, July 27, 13:20 - 15:00

Authors: Linlu Mei, Yong Xue, Ying Wang, Tingting Hou, Jie Guang, Yingjie Li, Hui Xu, Chaolin Wu, Xingwei He, Jing Dong, Ziqiang Chen

[View](#)ADD

Paper Code: WEP.W.1

Paper Number: 1745

Title: REMOTE SENSING SATELLITE SENSOR INFORMATION RETRIEVAL AND VISUALIZATION BASED ON SENSORML

Topic: Sensors and Platforms: Others

Session: Missions and Instruments I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Chuli Hu, Nengcheng Chen, Chao Wang

[View](#)ADD

Paper Code: MOP.F.1

Paper Number: 1746

Title: PHASE-DIFFERENCE CHARACTERISTICS OF URBAN AREAS IN POLARIMETRIC SAR IMAGES

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR I

Time: Monday, July 25, 17:00 - 18:30

Authors: Kyung-Yup Lee, Youn-Soo Kim, Yisok Oh

[View](#)ADD

Paper Code: TH1.T01.5

Paper Number: 1747

Title: BLIND AZIMUTH PHASE ELIMINATION FOR TERRASAR-X SCANSAR INTERFEROMETRY

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High and Low Resolution SAR / InSAR

Time: Thursday, July 28, 08:20 - 10:00

[View](#)ADD **Authors:** Zhe Hu, Linlin Ge, Xiaojing Li**Paper Code:** WE2.T06.1**Paper Number:** 1748**Title:** DISCRIMINATION OF P-WAVE INTERVAL IN TIME--QUEFRENCY ANALYSIS FOR PROXIMITY MICROSEISMIC DOUBLETS**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth III**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Koji Nagano[View](#)ADD **Paper Code:** FR1.T04.2**Paper Number:** 1749**Title:** EVALUATION OF CALIBRATION ACCURACY WITH HPS (HONGIK POLARIMETRIC SCATTEROMETER) SYSTEM FOR MULTI-BANDS AND MULTI-POLARIZATIONS**Topic:** Sensors and Platforms: Gound Based System**Session:** Ground Based System II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Ji-Hwan Hwang, Soon-Gu Kwon, Yisok Oh[View](#)ADD **Paper Code:** TU4.T06.2**Paper Number:** 1751**Title:** MONITORING OF TOPOGRAPHIC CHANGE ON THE COASTAL AREA**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Jinah Eom, Jong-Kuk Choi, Joo-Hyung Ryu, Joong-Sun Won[View](#)ADD **Paper Code:** WE4.T07.4**Paper Number:** 1752**Title:** DISPLACED ENSEMBLE VARIATIONAL ASSIMILATION METHOD TO INCORPORATE MICROWAVE IMAGER BRIGHTNESS TEMPERATURES INTO A CLOUD-RESOLVING MODEL**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Kazumasa Aonashi, Hisaki Eito[View](#)ADD **Paper Code:** WE3.T05.3**Paper Number:** 1755**Title:** BAYESIAN MAXIMUM ENTROPY DATA FUSION OF THE FIELD OBSERVED LAI AND LANDSAT ETM+ DERIVED LAI**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Aihua Li, Yanchen Bo, Ling Chen[View](#)ADD **Paper Code:** WEP.U.3**Paper Number:** 1756**Title:** Error Analysis of DEM Derived from Airborne Single-pass Interferometric SAR Data**Topic:** Sensors and Platforms: UAV and Airborne Platforms**Session:** Remote Sensing using Unmanned Aerial Vehicles**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Zhongchang Sun, Huadong Guo, Xinwu Li, Mengmei Jiao[View](#)ADD **Paper Code:** WE4.T05.2**Paper Number:** 1763**Title:** RESEARCH ON FPAR VERTICAL DISTRIBUTION IN DIFFERENT VARIETY MAIZE CANOPY**Topic:** Land: Forests and Vegetation

Session: Agricultural Applications**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Rongyuan Liu, Wenjiang Huang, Huazhong Ren, Guijun Yang, Jihua Wang, Xiaowen Li**View****ADD** **Paper Code:** MO4.T09.5**Paper Number:** 1767**Title:** LOCAL PATCHES FOR CHANGE DETECTION IN VERY HIGH RESOLUTION REMOTE SENSING IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Change Detection and Multitemporal Image Analysis II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Xing Gong, Thomas Corpetti**View****ADD** **Paper Code:** TU1.T03.2**Paper Number:** 1769**Title:** WHY DIFFERENT PASSIVE MICROWAVE ALGORITHMS GIVE DIFFERENT SOIL MOISTURE RETRIEVALS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Xiwu Zhan, Jicheng Liu, Thomas Holmes, Wade Crow, Thomas Jackson, Steven Chan**View****ADD** **Paper Code:** TU1.T04.3**Paper Number:** 1770**Title:** POLARIMETRIC CALIBRATION USING DISTRIBUTED ODD-BOUNCE TARGETS**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Student Paper Contest I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Jiong Chen, Motoyuki Sato, Jian Yang**View****ADD** **Paper Code:** TUP.B.4**Paper Number:** 1771**Title:** LOCAL CO-REGISTRATION FOR DISTORTION REDUCTION IN SAR INTERFEROGRAM USING AMPLITUDE INFORMATION – COMBINATION OF SPEC METHOD AND SHAPE-FROM-SHADING –**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ryo Natsuaki, Akira Hirose**View****ADD** **Paper Code:** TUP.H.3**Paper Number:** 1774**Title:** NOVEL DETECTION METHOD AND PARAMETERS ANALYSIS OF VITAL SIGNAL FOR ULTRA-WIDEBAND RADAR**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yanyun Xu, Shun Dai, Shiyu Wu, Yawen Dang, Jie Chen, Guangyou Fang**View****ADD** **Paper Code:** WEP.C.3**Paper Number:** 1776**Title:** SNOW PARTICLE AUTOMATIC CLASSIFICATION WITH TEXTURE OPERATORS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30

ViewADD **Authors:** Karolina Nurzynska, Mamoru Kubo, Ken-Ichiro Muramoto**Paper Code:** TUP.N.4**Paper Number:** 1777**Title:** SHIPBOARD MEASUREMENTS OF SKIN SST IN THE CHINA SEAS: VALIDATION OF SATELLITE SST PRODUCTS**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Lei Guan, Kailin Zhang, Weicheng Teng**View**ADD **Paper Code:** WE4.T10.1**Paper Number:** 1778**Title:** ESTIMATION OF OCEAN WAVE HEIGHT USING POLARIZATION RATIO OF SYNTHETIC APERTURE RADAR DATA**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Mitsunobu Sugimoto, Nobuaki Shiroto, Kazuo Ouchi**View**ADD **Paper Code:** TUP.W.6**Paper Number:** 1784**Title:** ELEMENTAL GEOCHEMISTRY AND PALEOENVIRONMENT EVOLUTION OF SHELL BAR SECTION AT QARHAN IN THE QAIDAM BASIN, CHINA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenxiang Zhang, Zhengtao Shi, Hucui Zhang, Qingzhong Ming, Fengqin Chang, Guoliang Lei, Guangjie Chen, Ming Dong**View**ADD **Paper Code:** FR2.T07.4**Paper Number:** 1785**Title:** RETRIEVAL OF BIOMASS BURING AEROSOLS WITH COMBINATION OF NEAR-UV RADIANCE AND NEAR-IR POLARIZATION**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Itaru Sano, Sonoyo Mukai, Makiko Nakata, Brent Holben, Nobuyuki Kikuchi**View**ADD **Paper Code:** MOP.D.4**Paper Number:** 1787**Title:** TARGET DETECTION USING DOUBLE-STEP FAST CFAR SCHEME IN THE HIGH RESOLUTION SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Chul H. Jung, Woo Y. Song, Jung Kim, Young K. Kwag**View**ADD **Paper Code:** TU4.T07.3**Paper Number:** 1788**Title:** DUAL KA-BAND RADAR EXPERIMENT FOR THE DPR ALGORITHM DEVELOPMENT**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Kenji Nakamura, Shuji Shimizu, Katsuhiko Nakagawa, Hiroshi Hanado

ViewADD **Paper Code:** TU3.T10.3**Paper Number:** 1789**Title:** SEA SURFACE CURRENT MEASUREMENT WITH KU-BAND SAR ALONG-TRACK INTERFEROMETRY**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Nobuo Kumagae, Kazuo Kawamura, Kenji Tatsumi, Masatada Furuhashi, Masayoshi Tsuchida, Masao Tsuji, Tomoya Yamaoka, Kei Suwa**View**ADD **Paper Code:** WE1.T04.1**Paper Number:** 1791**Title:** OVERVIEW OF THE KOMPSAT-5 SAR SATELLITE**Topic:** Invited Sessions: KOMPSAT-5 SAR**Session:** KOMPSAT-5 SAR**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Yong-Sik Chun, Sang-Hoon Hong**View**ADD **Paper Code:** WE1.T08.3**Paper Number:** 1792**Title:** DYNAMIC BAND SELECTION FOR HYPERSPECTRAL IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Feature Extraction and Band Selection in Hyperspectral Imagery**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Keng-Hao Liu, Chein-I Chang**View**ADD **Paper Code:** WE1.T04.5**Paper Number:** 1795**Title:** SCIENTIFIC APPLICATION WITH KOMPSAT-5 SAR**Topic:** Invited Sessions: KOMPSAT-5 SAR**Session:** KOMPSAT-5 SAR**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Sang-Hoon Hong, Kyung-Yup Lee, Youn-Soo Kim**View**ADD **Paper Code:** TUP.H.4**Paper Number:** 1797**Title:** IDENTIFICATION OF ONSHORE FEATURES FOR DELINEATION OF THE LAND WATER INTERFACE AND THEIR SPATIAL-TEMPORAL VARIATION USING HIGH RESOLUTION IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Xin Liu, Jianhong(Cecilia) Xia, Graeme Wright, Lesley Arnold, Ric Mahoney**View**ADD **Paper Code:** TUP.B.2**Paper Number:** 1798**Title:** OBSERVING 2006-2010 GROUND DEFORMATIONS OF MERAPI VOLCANO (INDONESIA) USING ALOS/PALSAR AND ASTER TIR DATA**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Asep Saepuloh, Minoru Urai, Christina Widiwijayanti, Nurnaning Aisyah**View**ADD **Paper Code:** TUP.T.2**Paper Number:** 1799**Title:** EVALUATION OF COSMO-SKYMED X-BAND SAR OBSERVATIONS FOR WETLAND INSAR APPLICATION**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II

ViewADD **Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Sang-Hoon Hong, Shimon Wdowinski**Paper Code:** MOP.K.1**Paper Number:** 1800**Title:** FEATURE-BASED IMAGE REGISTRATION OF ALOS PALSAR AND AVNIR-2 IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tee-Ann Teo, Shin-Yu Chen**View**ADD **Paper Code:** FR3.T09.2**Paper Number:** 1801**Title:** MANAGING AND INTEGRATING GEOGRAPHY MODELS IN DISTRIBUTED ENVIRONMENT**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques IV**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Xiaolin Wang, Hui Li, Hao Deng, Yingwei Luo**View**ADD **Paper Code:** TH2.T10.3**Paper Number:** 1802**Title:** EVALUATIONS OF WIND VECTORS OBSERVED BY ASCAT USING STATISTICAL DISTRIBUTIONS**Topic:** Invited Sessions: Spacebased Observation of Ocean Surface Wind and Stress**Session:** Spacebased Observation of Ocean Surface Wind and Stress**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Naoto Ebuchi**View**ADD **Paper Code:** WE4.T06.4**Paper Number:** 1803**Title:** ASSESSMENT OF ALBEDO CHANGES AND THEIR DRIVING FACTORS OVER THE QINGHAI-TIBETAN PLATEAU**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth V**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Bing Zhang, Liping Lei, Li Zhang, Zhaocheng Zen**View**ADD **Paper Code:** TU2.T02.2**Paper Number:** 1806**Title:** Measuring orientation and randomness of vegetation using polarimetric SAR data**Topic:** Invited Sessions: SAR Polarimetry: Theory and Applications**Session:** SAR Polarimetry: Theory and Applications II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Motofumi Arii, Jakob van Zyl, Yunjin Kim**View**ADD **Paper Code:** MOP.R.4**Paper Number:** 1811**Title:** A PRELIMINARY STUDY ON USING WORLDVIEW-2 DATA TO MONITOR THE WATER QUALITY OF TAIHU LAKE**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jianwei Tao, Zili Zhang, Wenxian Yu**View****Paper Code:** MOP.U.4**Paper Number:** 1815

ADD

Title: APPLICATION OF 3-D MIGRATION ALGORITHM TO GPR ON AN IRREGULAR GROUND SURFACE

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications II

Time: Monday, July 25, 17:00 - 18:30

Authors: Andrey Klokov, Motoyuki Sato

View

ADD

Paper Code: MOP.N.11

Paper Number: 1816

Title: LAND COVER CHANGE AND EFFECT ON AGRICULTURAL IRRIGATION BASED ON RS AND GIS FOR 20 YEARS IN YANQING COUNTY, BEIJING

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change III

Time: Monday, July 25, 17:00 - 18:30

Authors: Linrui Song, Jing Zhang, Huili Gong, Xiaojuan Li, Jingyu Zhang

View

ADD

Paper Code: TUP.E.3

Paper Number: 1817

Title: ESTIMATION OF GLYCYRRHIZIC ACID CONTENT USING CANOPY SPECTROSCOPY IN VISIBLE-SHORTWAVE INFRARED REGION

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Hyperspectral Monitoring of the Environment II

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Xuewen Zhang, Lifu Zhang, Caixiang Xie

View

ADD

Paper Code: TUP.I.6

Paper Number: 1818

Title: RAPID DETECTION OF COLLAPSED BUILT-UP STRUCTURES USING POST-EVENT VHR IN EARTHQUAKE-AFFECTED AREAS

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Urban Areas, Buildings and Roads

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Liwei Li, Bing Zhang, Liping Lei, Lianru Gao, Dailiang Peng, Yanhong Wu, Jianwen Ma

View

ADD

Paper Code: TUP.O.10

Paper Number: 1819

Title: SIMULATION STUDY ON SHALLOW SEA TOPOGRAPHY IMAGING BY ALONG-TRACK INTERFEROMETRIC SAR

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents III

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Xiangzhen Yu, Jinsong Chong, Wen Hong, Minhui Zhu

View

ADD

Paper Code: MO4.T02.1

Paper Number: 1820

Title: ESTIMATING SOIL MOISTURE FROM A VARYING SUBSURFACE PROFILE

Topic: Invited Sessions: Advanced Methods for Polarimetric SAR information extraction

Session: Advanced Methods for Polarimetric SAR Information Extraction II

Time: Monday, July 25, 15:20 - 17:00

Authors: Jakob van Zyl, Yunjin Kim, Uday Khankhoje

View

ADD

Paper Code: MOP.D.5

Paper Number: 1821

Title: FEASIBILITY OF HIGH RESOLUTION SAR AND MULTISPECTRAL DATA FUSION

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High Resolution SAR

ViewADD **Time:** Monday, July 25, 17:00 - 18:30**Authors:** R Chandrakanth, J Saibaba, Geeta Varadan, P Ananth Raj**Paper Code:** MOP.P.1**Paper Number:** 1822**Title:** IMPROVING TROPICAL FOREST MAPPING USING COMBINATION OF OPTICAL AND MICROWAVE DATA OF ALOS**Topic:** Land: Forests and Vegetation**Session:** Tropical Forests**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Nguyen Thanh Hoan, Ryutaro Tateishi, Alsaadeh Bayan, Ngigi Thomas Gathungu, Mi Lan**View**ADD **Paper Code:** MOP.M.3**Paper Number:** 1824**Title:** Improvement of ship-sea clutter ratio of SAR imagery using standard deviation filter**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Motofumi Arii**View**ADD **Paper Code:** MO4.T06.2**Paper Number:** 1825**Title:** A NEW METHOD OF THROUGH WALL MOVING TARGET DETECTION AND IMAGING USING UWB-SP RADAR**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Applications**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Shiyu Wu, Yanyun Xu, Jie Chen, Shengwei Meng, Guangyou Fang, Hejun Yin**View**ADD **Paper Code:** MOP.O.10**Paper Number:** 1826**Title:** A PRELIMINARY ASSESSMENT OF FOREST FRAGMENTATION AND STABILITY—A CASE STUDY OF QINGHAI SPRUCE FOREST IN QILIAN MOUNTAINS, CHINA**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change IV**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yiyue Liu, Chuanyan Zhao, Zhonglin Xu**View**ADD **Paper Code:** MOP.K.8**Paper Number:** 1827**Title:** SUB-PIXEL MAPPING BASED ON SUB-PIXEL TO SUB-PIXEL SPATIAL ATTRACTION MODEL**Topic:** Invited Sessions: Superresolution and sub-pixel classification**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Ligu Wang, Qunming Wang, Danfeng Liu**View**ADD **Paper Code:** MOP.Y.1**Paper Number:** 1828**Title:** SCENE-BASED NON-UNIFORMITY CORRECTION USING COMPRESSIVE SENSING**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Mahboob Iqbal, Jie Chen, Zhuo Li**View****Paper Code:** FR4.T07.2**Paper Number:** 1830

ADD **Title:** PHOTOMETRIC ANALYSIS OF THE OCTOBER 2010 HAZE EVENT OVER SINGAPORE**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Pollution and Contamination II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Santo Valentin Salinas Cortijo, Chew Boon Ning, Liew Soo Chin

View

Paper Code: TH3.T09.3**Paper Number:** 1831**Title:** A PROVENANCE FRAMEWORK FOR WEB GEOPROCESSING WORKFLOWS**Topic:** Invited Sessions: Provenance in Geoscience Data**Session:** Provenance in Geoscience Data**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Peng Yue, Ziheng Sun, Jianya Gong, Liping Di, Xianchang LuADD

View

Paper Code: WE4.T08.4**Paper Number:** 1832**Title:** A TECHNIQUE FOR SPECTRAL PIXEL RECONSTRUCTION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Fusion and Super-Resolution**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** S K Patra, J Saibaba, Geeta Varadan, S K NayakADD

View

Paper Code: WE4.T01.1**Paper Number:** 1839**Title:** DISPLACED PHASE CENTER ANTENNA SAR IMAGING BASED ON COMPRESSED SENSING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Compressive Sensing and Dimensionality Reduction**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Yueguan Lin, Bingchen Zhang, Wen Hong, Yirong WuADD

View

Paper Code: MOP.W.2**Paper Number:** 1840**Title:** MULTICHANNEL SAR ECCM BASED ON FAST-TIME STAP AND PULSE DIVERSITY**Topic:** Sensors and Platforms: Others**Session:** SAR Missions and Instruments II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yu Chunrui, Ma Xile, Zhang Yongsheng, Dong Zhen, Liang DiannongADD

View

Paper Code: TUP.E.4**Paper Number:** 1841**Title:** DEVELOPING AN APHID DAMAGE HYPERSPECTRAL INDEX FOR DETECTING APHID (HEMIPTERA: APHIDIDAE) DAMAGE LEVELS IN WINTER WHEAT**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Juhua Luo, Dacheng Wang, Yingying Dong, Wenjiang Huang, Jindi WangADD

View

Paper Code: WE4.T08.2**Paper Number:** 1845**Title:** A NEW SAR SUPERRESOLUTION IMAGING ALGORITHM BASED ON ADAPTIVE SIDELobe REDUCTION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Fusion and Super-Resolution**Time:** Wednesday, July 27, 15:20 - 17:00ADD

ViewADD **Authors:** Ping Zhang, Zhen Li, Jianmin Zhou, Quan Chen, Bangsen Tian**Paper Code:** FR2.T03.1**Paper Number:** 1850**Title:** Aerosol Classification Retrieval Algorithms for EarthCARE/ATLID, CALIPSO/CALIOP, and Ground-Based Lidars**Topic:** Sensors and Platforms: Lidar Sensors**Session:** Lidar Sensors III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Nobuo Sugimoto, Tomoaki Nishizawa, Atsushi Shimizu, Hajime Okamoto**View**ADD **Paper Code:** FR3.T05.3**Paper Number:** 1851**Title:** SENSIBLE HEAT FLUX ESTIMATION USING SURFACE ENERGY BALANCE SYSTEM (SEBS), MODIS PRODUCTS, AND NCEP REANALYSIS DATA**Topic:** Land: Others**Session:** Land Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Yuanyuan Wang, Xiang Li**View**ADD **Paper Code:** TUP.H.5**Paper Number:** 1852**Title:** PREDICTING WHEAT APHID USING 2-DIMENSIONAL FEATURE SPACE BASED ON MULTI-TEMPORAL LANDSAT TM**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenjiang Huang, Juhua Luo, Jinling Zhao, Jingcheng Zhang, Zhihong Ma**View**ADD **Paper Code:** TU4.T05.5**Paper Number:** 1854**Title:** A GROUND BASED POLARIMETRIC SCATTEROMETER EXPERIMENT IN FRENCH GUIANA FORESTS**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Clément Albinet, Pierre Borderies, Thierry Koleck, Fabio Rocca, Stefano Tebaldini, Thuy Le Toan, Ludovic Villard**View**ADD **Paper Code:** MOP.T.3**Paper Number:** 1855**Title:** POLARIZATION AND PROPAGATION PROPERTY OF ELECTROMAGNETIC PULSES IN THE EARTH**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems, Methods and Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Minoru Tsutsui, Taka Nakatani, Munetoshi Kamitani, Toshiyasu Nagao**View**ADD **Paper Code:** TUP.K.2**Paper Number:** 1866**Title:** REMOTE SENSING METHODS FOR THE EVALUATION OF THE MESQUITE TREE (*Prosopis juliflora*) ENVIRONMENTAL ADAPTATION TO SEMI-ARID AFRICA**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Buho Hoshino, Maino Yonemori, Karina Manayeva, Abdelaziz Karamalla, Kiyotsugu Yoda, Mahgoub Suliman, Mohamed Elgamri, Hiroshi Nawata, Yusuke Mori, Shunsuke Yabuki, Shigeto Aida

ViewADD **Paper Code:** MOP.Q.5**Paper Number:** 1868**Title:** GLOBAL VEGETATION DYNAMIC MONITORING USING MULTIPLE SATELLITE OBSERVATIONS, 2002-2007**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Le Yang, Hejuan Du, Jing Zhao, Qinhuo Liu**View**ADD **Paper Code:** MOP.T.4**Paper Number:** 1873**Title:** DETECTION OF LNAPL CONTAMINATED SOILS BY GPR**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems, Methods and Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Qi Lu, Xuan Feng, Cai Liu, Hong-Li Li, Motoyuki Sato**View**ADD **Paper Code:** TUP.G.1**Paper Number:** 1874**Title:** A NEW METHOD FOR EXTRACTING GLACIER AREA USING SAR INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction from RADAR and SAR Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hong'an Wu, Yonghong Zhang, Weifan Zhong, Guangtong Sun**View**ADD **Paper Code:** WEP.I.6**Paper Number:** 1876**Title:** DESIGNING AN IMPROVED SOIL MOISTURE INDEX IN THE NEAR-INFRARED AND SHORTWAVE PLANE**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Fang Liu, Qiming Qin, Chao Chen, Haixia Feng, Ning Zhang, Leilei Chai**View**ADD **Paper Code:** TH4.T02.1**Paper Number:** 1877**Title:** Time-series InSAR with DesDynI: Lessons from ALOS PALSAR**Topic:** Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications**Session:** Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications II**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Piyush Agram, Mark Simons, Howard Zebker**View**ADD **Paper Code:** FR3.T05.5**Paper Number:** 1879**Title:** A TEMPORAL FILTERING ALGORITHM TO RECONSTRUCT DAILY ALBEDO SERIES BASED ON GLASS ALBEDO PRODUCT**Topic:** Land: Others**Session:** Land Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Nanfeng Liu, Qiang Liu, Lizhao Wang, Jianguang Wen**View**ADD **Paper Code:** MOP.M.4**Paper Number:** 1881**Title:** A LEVELSET METHOD FOR RADAR CONVECTIVE STORM NOWCASTING**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jin-Ze Song, Yuan-Xiang Li, Qi Hu

[View](#)ADD **Paper Code:** MOP.M.5**Paper Number:** 1882**Title:** BLOCK ADAPTIVE COMPRESSED SENSING OF SAR IMAGES BASED ON STATISTICAL CHARACTER**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Nana Wang, Jingwen Li[View](#)ADD **Paper Code:** WE2.T08.5**Paper Number:** 1885**Title:** BAYESIAN FUSION OF HYPERSPECTRAL AND MULTISPECTRAL IMAGES USING GAUSSIAN SCALE MIXTURE PRIOR**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Hyperspectral Image Analysis**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Yifan Zhang, Shaohui Mei, Mingyi He[View](#)ADD **Paper Code:** MOP.M.6**Paper Number:** 1887**Title:** CONCURRENT SAR IMAGES DENOISING AND SEGMENTATION BASED ON A NOVEL MODEL OF WAVELET COEFFICIENTS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Wentao Lv, Feng Chen, Wenxian Yu, Qiuze Yu, Kaizhi Wang[View](#)ADD **Paper Code:** WE1.T09.5**Paper Number:** 1888**Title:** BUILDING CHANGE DETECTION IN A COUPLE OF OPTICAL AND SAR HIGH RESOLUTION IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Building Detection and Object Recognition**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Edouard Barthelet, Grégoire Mercier, Léonard Denise[View](#)ADD **Paper Code:** TUP.D.7**Paper Number:** 1889**Title:** UNSUPERVISED FEATURE EXTRACTION BASED ON A MUTUAL INFORMATION MEASURE FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Md. Ali Hossain, Mark Pickering, Dr. Xiuping Jia[View](#)ADD **Paper Code:** WEPL.7**Paper Number:** 1890**Title:** ESTIMATION THE MOTION OF DONGKEMADI GLACIER IN QINGHAI-TIBET PLATEAU USING DIFFERENTIAL SAR INTERFEROMETRY WITH CORNER REFLECTORS**Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jianmin Zhou, Zhen Li[View](#)ADD **Paper Code:** WEP.J.7**Paper Number:** 1891**Title:** MEASURING AND SIMULATING PASSIVE C-BAND MICROWAVE RELIEF EFFECTS OVER UNCOVERED LAND SURFACE IN REMOTE SENSING**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xinxin Li, Lixin Zhang, Lingmei Jiang, Tao Zhang, Zhenguo Hao**Paper Code:** TUP.H.6**Paper Number:** 1892**Title:** SEISMO-IONOSPHERIC ANOMALIES DETECTION BASED ON INTEGRATED WAVELET**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Monitoring of the Environment and Retrieval of Physical Parameters**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Liming He, Lixin Wu, Shanjun Liu, Baodong Ma**View**ADD **Paper Code:** MO3.T01.3**Paper Number:** 1893**Title:** A STUDY OF DENSE MEDIUM SCATTERING AND ITS APPLICATIONS IN SEA ICE RESEARCH IN ROSS ISLAND, ANTARCTICA**Topic:** Invited Sessions: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Session:** Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Yu Jen Lee, Wee Keong Lim, Hong Tat Ewe, Hean Teik Chuah**View**ADD **Paper Code:** MOP.X.10**Paper Number:** 1896**Title:** COMPARISON OF ENVISAT RA2 BACKSCATTER RESULTS OVER GLOBAL LAND SURFACE**Topic:** Sensors and Platforms: Active Microwave**Session:** Active Microwave Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Le Yang, Qinhuo Liu**View**ADD **Paper Code:** WE4.T01.2**Paper Number:** 1899**Title:** PARALLEL FREQUENCY RADAR VIA COMPRESSIVE SENSING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Compressive Sensing and Dimensionality Reduction**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Yanan You, Chunsheng Li, Ze Yu**View**ADD **Paper Code:** FR3.T01.1**Paper Number:** 1900**Title:** THE BISTATIC SAR EXPERIMENT WITH ALOS / PALSAR AND Pi-SAR-L**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Takashi Fujimura, Hideharu Totsuka, Norihiro Imai, Shingo Matsuo, Tsunekazu Kimura, Tomoko Ishii, Yoshitaka Oura, Masanobu Shimada**View**ADD **Paper Code:** WEPL.8**Paper Number:** 1903**Title:** SNOW BRDF CHARACTERISTICS FROM MODIS AND MISR DATA**Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hongyi Wu, Shunlin Liang, Ling Tong, Tao He**View****Paper Code:** MOP.T.5**Paper Number:** 1905**Title:** ITERATIVE MULTISCALING STRATEGY INCORPORATED INTO TIME DOMAIN INVERSE SCATTERING METHOD FOR CROSS-BOREHOLE IMAGING

ADD

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Systems, Methods and Applications I
Time: Monday, July 25, 17:00 - 18:30
Authors: Toshifumi Moriyama, Giacomo Oliveri, Andrea Massa, Takashi Takenaka

View

ADD

Paper Code: MOP.N.7 **Paper Number:** 1907
Title: SPATIO-TEMPORAL EVOLUTION OF HILLY CULTIVATED —A CASE STUDY IN SICHUAN PROVINCE, CHINA
Topic: Land: Land Use and Land Cover Change
Session: Land Use and Land Cover Change III
Time: Monday, July 25, 17:00 - 18:30
Authors: Ting-Xu Dong, Qi-Ming Qin, Hong-Bo Jiang, Hua-Ming Ke

View

ADD

Paper Code: WE4.T03.4 **Paper Number:** 1910
Title: MULTISTATIC NETWORKED RADAR FOR SEA CLUTTER MEASUREMENTS
Topic: Sensors and Platforms: Active Microwave
Session: New Active Microwave Instruments
Time: Wednesday, July 27, 15:20 - 17:00
Authors: Michael Raymond Inggs, Stephanus Sandenbergh, Gordon Inggs, Waddah Al-Ashwal, Karl Woodbridge, Hugh Griffiths

View

ADD

Paper Code: WE4.T04.3 **Paper Number:** 1913
Title: THE POTENTIAL OF COSMO-SKYMED SAR IMAGES IN MAPPING SNOW COVER AND SNOW WATER EQUIVALENT
Topic: Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow
Session: Active/Passive Microwave Remote Sensing of Terrestrial Snow I
Time: Wednesday, July 27, 15:20 - 17:00
Authors: Simone Pettinato, Emanuele Santi, Marco Brogioni, Simonetta Paloscia, Paolo Pampaloni, Enrico Palchetti, Jianchen Shi, Chuan Xiong

View

ADD

Paper Code: TH2.T04.4 **Paper Number:** 1914
Title: MONITORING THICKNESS CHANGES OF MOUNTAIN GLACIER BY DIFFERENTIAL INTERFEROMETRY OF ALOS PALSAR DATA
Topic: Land: Land Ice and Snow
Session: Active Microwave Remote Sensing of Snow and Ice
Time: Thursday, July 28, 10:20 - 12:00
Authors: Jianmin Zhou, Zhen Li, Qiang Xing

View

ADD

Paper Code: MOP.E.5 **Paper Number:** 1916
Title: A FURTHER INVESTIGATION ON RECONSTRUCTION OF VERTICAL PROFILES USING POLARIZATION COHERENCE TOMOGRAPHY
Topic: Land: Forests and Vegetation
Session: Polarimetric SAR Applications
Time: Monday, July 25, 17:00 - 18:30
Authors: Junhua Wang, Zhenhai Xu, Xuesong Wang, Guoyu Wang, Siwei Chen

View

ADD

Paper Code: TUP.A.7 **Paper Number:** 1917
Title: Intergrating Corner Reflector and PSInSAR Technique to Monitor Regional Land Subsidence
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: InSAR I
Time: Tuesday, July 26, 17:00 - 18:30

[View](#)ADD **Authors:** Daqing Ge, Yan Wang, Ling Zhang, Xuedong Zhang, Dapeng Yan, Man Li**Paper Code:** MOPE.3**Paper Number:** 1918**Title:** SIMILARITY-ENHANCED TARGET DETECTION ALGORITHM BASED ON MULTIPLE POLSAR SIMILARITY PARAMETER**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Lamei Zhang, Bin Zou, Wenyan Tang[View](#)ADD **Paper Code:** TH1.T09.3**Paper Number:** 1919**Title:** TEMPORAL DOMAIN ADAPTATION UNDER TIME WARPING**Topic:** Invited Sessions: New trends in machine learning for remote sensing**Session:** New Trends in Machine Learning for Remote Sensing**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Francois Petitjean, Jordi Inglada, Pierre Gancarski[View](#)ADD **Paper Code:** WEP.U.4**Paper Number:** 1920**Title:** NEAR-SPACE VEHICLES IN MICOWAVE REMOTE SENSING**Topic:** Sensors and Platforms: UAV and Airborne Platforms**Session:** Remote Sensing using Unmanned Aerial Vehicles**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Wen-Qin Wang, Jingye Cai[View](#)ADD **Paper Code:** TUP.L.2**Paper Number:** 1922**Title:** OBSERVATION OF JAPANESE PADDY FIELDS USING PALSAR DATA**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Naoki Ishitsuka[View](#)ADD **Paper Code:** WE3.T03.4**Paper Number:** 1923**Title:** MODEL SIMULATIONS OF NON-UNIFORM BEAM FILLING CORRECTION FOR SPACEBORNE PRECIPITATION RADAR**Topic:** Invited Sessions: Tropical rainfall Measuring Mission**Session:** Tropical Rainfall Measuring Mission**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** David Short, Toshio Iguchi[View](#)ADD **Paper Code:** MOP.B.3**Paper Number:** 1927**Title:** TWO - DIMENSIONAL MULTI - RESOLUTION TIME - DOMAIN FORWARD MODELING OF ELECTROMAGNETIC SCATTERING**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shuai Cui, Yu Zhang, Peng Zhang, Xiaojuan Zhang, Guangyou Fang[View](#)ADD **Paper Code:** TUP.A.2**Paper Number:** 1928**Title:** SEASONAL SUBSIDENCE RETRIEVAL WITH COHERENT POINT TARGET SAR INTERFEROMETRY: A CASE STUDY IN DEZHOU CITY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30

[View](#)ADD **Authors:** Ling Zhang, Daqing Ge, Xiaofang Guo, Yan Wang, Man Li, Xuedong Zhang**Paper Code:** TUP.C.5**Paper Number:** 1929**Title:** SAR IMAGING BASED ON COMPRESSED SENSING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yifeng Huan, Junfeng Wang, Zhen Tan, Xingzhao Liu, Wenxian Yu[View](#)ADD **Paper Code:** FR3.T09.4**Paper Number:** 1931**Title:** ANALYSIS OF REMOTE SENSING QUANTITATIVE INVERSION IN CLOUD COMPUTING**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques IV**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Jing Dong, Yong Xue, Ziqiang Chen, Hui Xu, Yingjie Li[View](#)ADD **Paper Code:** TUPL.7**Paper Number:** 1932**Title:** MULTI-FREQUENCY AND MULTI-POLARIZATION RADAR MEASUREMENTS OVER PADDY RICE FIELD AND THEIR RELATIONSHIP WITH GROUND PARAMETERS**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Changwen Zhao, Yan Chen, Ling Tong, Mingquan Jia[View](#)ADD **Paper Code:** TU3.T06.4**Paper Number:** 1937**Title:** 2D CHANGE DETECTION FROM SATELLITE IMAGERY: PERFORMANCE ANALYSIS AND IMPACT OF THE SPATIAL RESOLUTION OF INPUT IMAGES**Topic:** Environmental Applications: Urban and Built Environment**Session:** VHR Urban Remote Sensing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Nicolas Champion, Didier Boldo, Marc Pierrot-Deseilligny, Georges Stamon[View](#)ADD **Paper Code:** TUP.M.8**Paper Number:** 1938**Title:** LANDSLIDE SUSCEPTIBILITY MAPPING BY USING AN ADAPTIVE NEURO-FUZZY INFERENCE SYSTEM (ANFIS)**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jaewon Choi, Yoon-Kyung Lee, Moun-Jin Lee, Kidong Kim, Youngjin Park, Seongsam Kim, Shinhoi Goo, Myeongheum Cho, Jaehyeon Sim, Joong-Sun Won[View](#)ADD **Paper Code:** TH3.T07.2**Paper Number:** 1939**Title:** MODELING DAILY NET SHORTWAVE RADIATION OVER RUGGED SURFACES USING MODIS ATMOSPHERIC PRODUCTS**Topic:** Environmental Applications: Agroecosystems**Session:** Atmospheric Sensing Techniques II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Hailong Zhang, Xiaozhou Xin, Qinhuo Liu

ViewADD **Paper Code:** TU2.T06.2**Paper Number:** 1942**Title:** LAND-USE MAPPING USING COARSE RESOLUTION SAR DATA AT THE OBJECT LEVEL EXPLOITING ANCILLARY OPTICAL DATA**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Area Monitoring**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Paolo Gamba, Massimiliano Aldrichi**View**ADD **Paper Code:** FR3.T06.1**Paper Number:** 1945**Title:** LOCALLY ADAPTIVE TEMPLATE SIZES FOR MATCHING REPEAT IMAGES OF MASS MOVEMENTS**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters I**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Misganu Debella-Gilo, Andreas Käab**View**ADD **Paper Code:** MOP.B.4**Paper Number:** 1949**Title:** VALIDATION OF THE LAND SURFACE TEMPERATURE DERIVED FROM HJ-1B/IRS DATA WITH GROUND MEASUREMENTS**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hua Li, Qinhuo Liu, Jinxiong Jiang, Heshun Wang, Lin Sun**View**ADD **Paper Code:** WEP.E.7**Paper Number:** 1954**Title:** CHINA CROP GROWTH MONITORING SYSTEM-METHODOLOGY AND OPERATIONAL ACTIVITIES OVERVIEW**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** GIS Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Qing Huang, Zhongxin Chen, Wenbin Wu, Allard AJW de Wit, Fei Teng, Dandan Li**View**ADD **Paper Code:** MOP.S.5**Paper Number:** 1955**Title:** STUDY OF MICROWAVE EMISSIVITY CHARACTERISTICS OF CITY**Topic:** Land: Others**Session:** Land Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tao Zhang, Lixin Zhang, Lingmei Jiang, Yunqing Li**View**ADD **Paper Code:** WEP.G.7**Paper Number:** 1956**Title:** GEOMETRIC PROPERTIES PRESERVED LINE SIMPLIFICATION ALGORITHM BASED ON FRACTAL**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yingchao Ren, Janzhi Tang, Sheng Wu**View**ADD **Paper Code:** TUP.H.7**Paper Number:** 1957**Title:** ESTIMATION OF SOIL HEAT FLUX BY APPARENT THERMAL INERTIA**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Monitoring of the Environment and Retrieval of Physical Parameters

- Time:** Tuesday, July 26, 17:00 - 18:30
Authors: Jing Tian, Hongbo Su, Shaohui Chen, Renhua Zhang, Yongmin Yang, Yuan Rong
- View**
Paper Code: TH3.T08.1 **Paper Number:** 1958
Title: ISAR IMAGE SEQUENCE BASED AUTOMATIC TARGET RECOGNITION BY USING A MULTI-FRAME MARKED POINT PROCESS MODEL
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: SAR Image Processing III
Time: Thursday, July 28, 13:20 - 15:00
Authors: Csaba Benedek, Marco Martorella
- ADD**
- View**
Paper Code: WE2.T08.4 **Paper Number:** 1959
Title: HYPERSPECTRAL UNMIXING USING A NOVEL CONVERSION MODEL
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Hyperspectral Image Analysis
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Fereidoun A. Mianji, Shuang Zhou, Ye Zhang
- ADD**
- View**
Paper Code: WEP.Q.2 **Paper Number:** 1966
Title: SIMULATION OF CARBON DIOXIDE FLUXES IN AGROECOSYSTEM BASED ON BIOME-BGC MODEL
Topic: Environmental Applications: Agroecosystems
Session: Agroecosystems I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Lichao Feng, Rui Sun, Tinglong Zhang, Bo Hu, Yao Tang
- ADD**
- View**
Paper Code: WEP.E.1 **Paper Number:** 1969
Title: A WEBGIS FOR SHARING AND INTEGRATION OF MULTI-SOURCE HETEROGENEOUS SPATIAL DATA
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Jianzhi Tang, Yingchao Ren, Chongjun Yang, Lei Shen, Jun Jiang
- ADD**
- View**
Paper Code: MOP.F.2 **Paper Number:** 1972
Title: POLARIMETRIC CALIBRATION REQUIREMENTS FOR A CLASSIFICATION SCHEME BASED ON SCATTERING TYPE ALPHA
Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR
Session: Polarimetric SAR I
Time: Monday, July 25, 17:00 - 18:30
Authors: Chunle Wang, Weidong Yu
- ADD**
- View**
Paper Code: WEP.I.9 **Paper Number:** 1974
Title: THE METHOD FOR SOIL MOISTURE INVERSION BASED ON GROUND-BASED SCATTERING MEASUREMENT
Topic: Land: Soils and Soil Moisture
Session: Soil Moisture Analysis and Applications
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Chengqiang Qiu, Yan Chen, Ling Tong, Mingquan Jia, Shaofeng Pang
- ADD**
- View**
Paper Code: TU4.T09.4 **Paper Number:** 1979
Title: SEMANTIC INFORMATION DISCOVERY IN SATELLITE IMAGES
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
- ADD**

Session: Data Mining and Machine Learning for Remote Sensing II

Time: Tuesday, July 26, 15:20 - 17:00

Authors: Dragos Bratanu, Ion Nedelcu, Mihai Datcu

View

ADD

Paper Code: MOP.C.7

Paper Number: 1980

Title: NONUNIFORM SAMPLING PFA FOR SQUINT SPOTLIGHT SAR IMAGING

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High Resolution and Multi-Channel SAR

Time: Monday, July 25, 17:00 - 18:30

Authors: Huaping Xu, Deming Guo, Jingwen Li

View

ADD

Paper Code: MOP.Q.7

Paper Number: 1981

Title: A STUDY ON THE EFFECT OF WHEAT ROW-STRUCTURE ON MICROWAVE EMISSICITY USING FIELD EXPERIMENT DATA

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis I

Time: Monday, July 25, 17:00 - 18:30

Authors: Yunqing Li, Lixin Zhang, Lingmei Jiang, Linna Chai, Tao Zhang

View

ADD

Paper Code: MOP.O.7

Paper Number: 1983

Title: Influence of changes of underlying surface on the output of sand-dust model

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change IV

Time: Monday, July 25, 17:00 - 18:30

Authors: Dihua Cai, Jianhua Zhao, Yaohui Li, Ni Guo, Haixia Duan, Hui Han, Jing Wang

View

ADD

Paper Code: WEP.X.5

Paper Number: 1984

Title: A PRELIMINARY APPLICATION OF GOSAT IN CO2 CONCENTRATION ANALYSIS OVER DIFFERENT SCALES

Topic: Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions

Session: Data Management, Dissemination, Education and Policy

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Shanshan Hou, Liping Lei, Qing Liu

View

ADD

Paper Code: WE4.T09.3

Paper Number: 1986

Title: Estimation of impervious surface based on integrated analysis of classification and regression by using SVM.

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Parameter Estimation

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Xi Cheng, Jiancheng Luo, Zhanfeng Shen, Changming Zhu, Xin Zhang, Liegang Xia

View

ADD

Paper Code: MOP.X.5

Paper Number: 1987

Title: DESIGN OF THE INTERFACE OF A CALIBRATION TRANSPONDER AND AN ALTIMETER / SCATTEROMETER

Topic: Sensors and Platforms: Active Microwave

Session: Active Microwave Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Xi-Yu Xu, Wei Guo, He-Guang Liu, Ling-Wei Shi, Wen-Ming Lin, Yue-Heng Du

ViewADD **Paper Code:** MOP.J.7**Paper Number:** 1988**Title:** TOWARDS A FRAMEWORK OF ALGORITHM MANAGEMENT FOR REMOTE SENSING IMAGE ANALYSIS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yongke Ding, Kaizhi Wang, Wenxian Yu, Xingzhao Liu**View**ADD **Paper Code:** FR2.T02.2**Paper Number:** 1990**Title:** TOPOGRAPHY EFFECTS ON POLARIMETRIC SAR REMOTE SENSING OF MOUNTAINOUS TERRAIN**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Mitigating Terrain Effects on PolSAR Classification**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Sang-Eun Park, Yoshio Yamaguchi**View**ADD **Paper Code:** TU2.T09.4**Paper Number:** 1992**Title:** TRUCK CHARACTERISTIC ANALYSIS FROM ALL ASPECT ANGLES WITH QUAD-POL RADARSAT-2 SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Target Detection**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Bo Zhang, Hong Zhang, Chao Wang, Fan Wu, Yixian Tang**View**ADD **Paper Code:** TUP.A.9**Paper Number:** 1996**Title:** MULTI-LINK SAR INTERFEROGRAMS: ENHANCEMENT OF A WRAPPED INTERFEROMETRIC DATABASE**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Béatrice Pinel-Puysségur, Rémi Michel, Jean-Philippe Avouac**View**ADD **Paper Code:** TU2.T08.2**Paper Number:** 1997**Title:** ROBUST UNMIXING OF HYPERSPECTRAL IMAGES: APPLICATION TO MARS**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Spectral Unmixing of Hyperspectral Data II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Mario Parente, John Mustard, Scott Murchie, Frank Seelos**View**ADD **Paper Code:** FR3.T05.1**Paper Number:** 1998**Title:** PROTOTYPING GOES-R ALBEDO ALGORITHM BASED ON MODIS DATA**Topic:** Land: Others**Session:** Land Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Tao He, Shunlin Liang, Hongyi Wu, Dongdong Wang**View**ADD **Paper Code:** MOP.B.5**Paper Number:** 2000**Title:** PRELIMINARY RESULTS OF TEMPORAL NORMALIZATION OF MODIS LAND SURFACE TEMPERATURE**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30

ViewADD **Authors:** Si-Bo Duan, Hua Wu, Ning Wang, Xiao-Ming Zhou, Bo-Hui Tang, Zhao-Liang Li**Paper Code:** MO3.T03.4**Paper Number:** 2001**Title:** ESTIMATING SMOS ERROR STRUCTURE USING TRIPLE COLLOCATION**Topic:** Land: Soils and Soil Moisture**Session:** SMOS Soil Moisture Validation**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Delphine Leroux, Yann H. Kerr, Philippe Richaume, Béatrice Berthelot**View**ADD **Paper Code:** TUP.G.2**Paper Number:** 2003**Title:** VESSEL DETECTION METHOD FOR HIGH RESOLUTION COSMO-SKYMED SAR IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction from RADAR and SAR Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Fan Wu, Chao Wang, Hong Zhang, Bo Zhang**View**ADD **Paper Code:** TUP.M.2**Paper Number:** 2008**Title:** RESEARCH OF HAITI EARTHQUAKE DISASTER BY USING TIME SERIES ALOS SATELLITE IMAGE**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hideki Hashiba, Toshiro Sugimura**View**ADD **Paper Code:** MO3.T03.5**Paper Number:** 2009**Title:** CONSTRUCTING A LONG TIME SERIES OF SOIL MOISTURE USING SMOS DATA WITH STATISTICS**Topic:** Land: Soils and Soil Moisture**Session:** SMOS Soil Moisture Validation**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Delphine Leroux, Yann H. Kerr, Eric Wood**View**ADD **Paper Code:** WEP.N.8**Paper Number:** 2012**Title:** ESTIMATION OF PRECIPITABLE WATER FROM THE THERMAL INFRARED HYPERSPECTRAL DATA**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xiao-Ming Zhou, Ning Wang, Hua Wu, Bo-Hui Tang, Zhao-Liang Li**View**ADD **Paper Code:** WE1.T09.4**Paper Number:** 2013**Title:** A NEW ROAD EXTRACTION APPROACH FOR LOW-FREQUENCY SAR IMAGES BASED ON ROAD APPURTENANCE DETECTION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Building Detection and Object Recognition**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Qian Song, Yu-Min Wang, Yun-Fei Shi, Tian Jin**View**ADD **Paper Code:** TUP.C.6**Paper Number:** 2014**Title:** Sparse SAR Imaging with Compressive Measurement**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR

- Time:** Tuesday, July 26, 17:00 - 18:30
Authors: Jie Zhang, Wen Hong, Bingchen Zhang
- View**
 ADD
- Paper Code:** FR1.T04.3 **Paper Number:** 2017
Title: INITIAL OBSERVATION RESULTS FOR PRECIPITATION ON THE KU-BAND BROADBAND RADAR NETWORK
Topic: Sensors and Platforms: Gound Based System
Session: Ground Based System II
Time: Friday, July 29, 08:20 - 10:00
Authors: Eiichi Yoshikawa, Satoru Yoshida, Takeshi Morimoto, Tomoo Ushio, Zen Kawasaki, Tomoaki Mega
- View**
 ADD
- Paper Code:** MOP.X.6 **Paper Number:** 2022
Title: Recognition of target in through wall imaging using shape feature extraction
Topic: Sensors and Platforms: Active Microwave
Session: Active Microwave Techniques
Time: Monday, July 25, 17:00 - 18:30
Authors: Abhay N Gaikwad, Dharmendra Singh, Madhav J Nigam
- View**
 ADD
- Paper Code:** FR1.T07.5 **Paper Number:** 2024
Title: A METHOD FOR THE RETRIEVAL OF AEROSOL OPTICAL THICKNESS ON CBERS DATA FROM TOP-OF-ATMOSPHERE RADIANCE
Topic: Atmosphere: Aerosols and Atmospheric Chemistry
Session: Aerosols and Atmospheric Chemistry II
Time: Friday, July 29, 08:20 - 10:00
Authors: Xin Zhang, Xiang Zhao, Bing Li, Ni Hu, Qing Li, Suhong Liu
- View**
 ADD
- Paper Code:** MOP.A.6 **Paper Number:** 2026
Title: ESTIMATION OF CLEAR-SKY DOWNWARD LONGWAVE RADIATION FROM SATELLITE DATA IN HEIHE RIVER BASIN OF NORTHWEST CHINA
Topic: Atmosphere: Others
Session: Electromagnetic Modeling and Data Analysis
Time: Monday, July 25, 17:00 - 18:30
Authors: Shanshan Yu, Xiaozhou Xin, Qinhuo Liu, Hailong Zhang
- View**
 ADD
- Paper Code:** TUP.F.5 **Paper Number:** 2029
Title: STRUCTURED SPARSE MODEL BASED FEATURE SELECTION AND CLASSIFICATION FOR HYPERSPECTRAL IMAGERY
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Methods and Efficient Implementations in Hyperspectral Imagery
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yuntao Qian, Jun Zhou, Minchao Ye, Qi Wang
- View**
 ADD
- Paper Code:** WEP.P.5 **Paper Number:** 2035
Title: IMPROVED ESTIMATION OF AEROSOL OPTICAL DEPTH FROM LANDSAT TM/ETM+ IMAGERY OVER LAND
Topic: Atmosphere: Aerosols and Atmospheric Chemistry
Session: Aerosols and Atmospheric Chemistry I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Bo Zhong
- View**
 ADD
- Paper Code:** TUP.V.5 **Paper Number:** 2038
Title: DETECTION OF CRUSTAL DEFORMATION INDUCED BY EARTHQUAKE AND VOLCANIC ACTIVITIES IN JAVA, INDONESIA
Topic: Environmental Applications: Geology and Solid Earth

Session: Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yanmei Zhang, Zaisen Jiang, Xiao Cheng**View****ADD** **Paper Code:** TU2.T08.5**Paper Number:** 2042**Title:** MINIMUM ENDMEMBER-WISE DISTANCE CONSTRAINED NONNEGATIVE MATRIX FACTORIZATION FOR SPECTRAL MIXTURE ANALYSIS OF HYPERSPECTRAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Spectral Unmixing of Hyperspectral Data II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Shaohui Mei, Mingyi He**View****ADD** **Paper Code:** WEP.J.1**Paper Number:** 2047**Title:** SOIL MOISTURE RETRIEVAL USING L-BAND RADIOMETER AND GROUND-PENETRATING RADAR**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** François Jonard, Lutz Weihermüller, Mike Schwank, Harry Vereecken, Sébastien Lambot**View****ADD** **Paper Code:** MOP.Y.9**Paper Number:** 2048**Title:** EVALUATION ON CONSISTENCY BETWEEN HJ-1 CCD AND TM IMAGES IN MONITORING FRACTIONAL GREEN VEGETATION COVER**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shuai Liu, Qi Li, Xi Mao, Junkui Zhang**View****ADD** **Paper Code:** WEP.D.5**Paper Number:** 2056**Title:** DIMENSION REDUCTION OF HYPERSPECTRAL IMAGES WITH SPARSE LINEAR DISCRIMINANT ANALYSIS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jiming Li, Yuntao Qian**View****ADD** **Paper Code:** MOP.C.2**Paper Number:** 2057**Title:** HIGH RESOLUTION SAR IMAGERY SHIP DETECTION BASED ON EXS-C-CFAR IN ALPHA-STABLE CLUTTERS**Topic:** Environmental Applications: Coastal and Wetlands**Session:** High Resolution and Multi-Channel SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xiangwei Xing, Kefeng Ji, Huanxin Zou, Jixiang Sun, Shilin Zhou**View****ADD** **Paper Code:** TH2.T02.5**Paper Number:** 2058**Title:** THE RADARSAT CONSTELLATION MISSION:"THE MAKING OF"**Topic:** Invited Sessions: RADARSAT**Session:** RADARSAT II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Alain Carrier

ViewADD **Paper Code:** WEP.G.3**Paper Number:** 2060**Title:** AN IMPROVED FREQUENCY DOMAIN FOCUSING METHOD IN GEO SAR**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Zhi-Peng Liu, Cheng Hu, Teng Long**View**ADD **Paper Code:** TUP.V.6**Paper Number:** 2062**Title:** DIFFERENTIAL SAR INTERFEROMETRY FOR MINING SUBSIDENCE DETECTION IN RUGGED TERRAIN**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yanmei Zhang, Zaisen Jiang, Xiao Cheng**View**ADD **Paper Code:** WEP.O.10**Paper Number:** 2066**Title:** TOMOGRAPHIC RETRIEVAL OF ATMOSPHERE TEMPERATURE PROFILES FROM LIMB INFRARED EMISSION BY ENVISAT MIPAS**Topic:** Atmosphere: Atmospheric Sounding**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Sheng-Bo Chen, G. Z. Zhang, Z. J. Wang, H.Y Li**View**ADD **Paper Code:** TH3.T08.2**Paper Number:** 2068**Title:** SAR IMAGE DESPECKLING BASED ON IMPROVED DIRECTIONLET DOMAIN GAUSSIAN MIXTURE MODEL**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing III**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** B. Hou, H. Guan, J. G. Jiang, K. Liu, L.C. Jiao**View**ADD **Paper Code:** WE2.T03.1**Paper Number:** 2069**Title:** UTILIZATION OF ANCILLARY DATA SETS FOR SMAP ALGORITHM DEVELOPMENT AND PRODUCT GENERATION**Topic:** Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications**Session:** NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Peggy O'Neill, Erika Podest, Eni Njoku**View**ADD **Paper Code:** WE1.T02.1**Paper Number:** 2070**Title:** TANDEM-X MISSION STATUS**Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Manfred Zink, Michael Bartusch, David Miller**View**ADD **Paper Code:** TH4.T03.1**Paper Number:** 2071**Title:** LONG-TERM STABILITY OF AN SiGe HBT-BASED ACTIVE COLD LOAD**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Calibration Techniques in Microwave Radiometry**Time:** Thursday, July 28, 15:20 - 17:00

- View**
ADD
- Authors:** Emilie Leynia de la Jarrige, Laurent Escotte, Eric Gonneau, Jean-Marc Goutoule
- Paper Code:** TH2.T02.4 **Paper Number:** 2075
- Title:** THE RADARSAT CONSTELLATION MISSION: "THE MISSION"
- Topic:** Invited Sessions: RADARSAT
- Session:** RADARSAT II
- Time:** Thursday, July 28, 10:20 - 12:00
- Authors:** Steve Iris
-
- View**
ADD
- Paper Code:** TUP.U.1 **Paper Number:** 2077
- Title:** HEAVY METAL POLLUTION AND THE ECOLOGICAL RISK ASSESSMENT OF URBAN STREET DUST IN KUNMING,CHINA
- Topic:** Environmental Applications: Pollution and Contamination
- Session:** Pollution and Contamination I
- Time:** Tuesday, July 26, 17:00 - 18:30
- Authors:** Zhengtao Shi, Wenxiang Zhang, Yong Liu, Feng Wu, Ming Dong, Huai Su, Qingzhong Ming
-
- View**
ADD
- Paper Code:** MO4.T02.5 **Paper Number:** 2080
- Title:** CONTRIBUTION OF THE POLARIMETRIC INFORMATION IN ORDER TO DISCRIMINATE TARGET FROM INTERFERENCE SUBSPACES. APPLICATION TO FOPEN DETECTION WITH SAR PROCESSING.
- Topic:** Invited Sessions: Advanced Methods for Polarimetric SAR information extraction
- Session:** Advanced Methods for Polarimetric SAR Information Extraction II
- Time:** Monday, July 25, 15:20 - 17:00
- Authors:** Frédéric Briguï, Laetitia Thirion-Lefevre, Guillaume Ginolhac, Philippe Forster
-
- View**
ADD
- Paper Code:** FR4.T05.5 **Paper Number:** 2082
- Title:** END-TO-END PERFORMANCE ANALYSIS OF A PARIS IN-ORBIT DEMONSTRATOR OCEAN ALTIMETER
- Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology
- Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology II
- Time:** Friday, July 29, 15:20 - 17:00
- Authors:** Salvatore D'Addio, Manuel Martín-Neira, Christopher Buck
-
- View**
ADD
- Paper Code:** MOP.D.6 **Paper Number:** 2083
- Title:** SUPPER RESOLUTION RADAR IMAGING: A VIRTUAL ARRAY CONCEPT APPROACH
- Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
- Session:** High Resolution SAR
- Time:** Monday, July 25, 17:00 - 18:30
- Authors:** Gaohuan Lv, Kaizhi Wang, Xingzhao Liu, Wenxian Yu
-
- View**
ADD
- Paper Code:** TH4.T09.4 **Paper Number:** 2084
- Title:** CLASSIFICATION OF MULTI-SOURCE IMAGES USING COLOR MORPHOLOGICAL PROFILES
- Topic:** Advances in Analysis Techniques (Theoretical): Image Processing
- Session:** Classification and Change Detection
- Time:** Thursday, July 28, 15:20 - 17:00

[View](#)ADD **Authors:** Valérie De Witte, Guy Thoonen, Paul Scheunders, Aleksandra Pizurica, Wilfried Philips**Paper Code:** WEP.N.1**Paper Number:** 2089**Title:** MAP-MRF cloud detection based on PHD filtering**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Paolo Adesso, Roberto Conte, Maurizio Longo, Rocco Restaino, Gemine Vivone[View](#)ADD **Paper Code:** TUP.J.1**Paper Number:** 2090**Title:** A POST NONLINEAR MIXING MODEL FOR HYPERSPECTRAL IMAGES UNMIXING**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yoann Altmann, Abderrahim Halimi, Nicolas Dobigeon, Jean-Yves Tourneret[View](#)ADD **Paper Code:** TH4.T03.2**Paper Number:** 2092**Title:** W-BAND RADIOMETER SYSTEM WITH SWITCHING FRONT-END FOR MULTI-LOAD CALIBRATION**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Calibration Techniques in Microwave Radiometry**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Ernst Weissbrodt, Ingmar Kalfass, Axel Hülsmann, Axel Tessmann, Arnulf Leuther, Hermann Massler, Oliver Ambacher[View](#)ADD **Paper Code:** TUP.A.4**Paper Number:** 2094**Title:** Study the land subsidence along JingHu highway (Beijing-Hebei) using PS-InSAR technique**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Zhang Xuedong, Ge Daqing, Ma Weiyu, Zhang Ling, Wang Yan, Guo Xiaofang[View](#)ADD **Paper Code:** WEP.O.4**Paper Number:** 2096**Title:** Channel Simulation for FY-4 AGRI**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Feng Lu, Yixuan Shou[View](#)ADD **Paper Code:** TU1.T04.2**Paper Number:** 2098**Title:** IMAGE DISTORTION EFFECTS IN SUBSURFACE SAR IMAGING OF DESERTS AND THEIR CORRECTION TECHNIQUE**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Student Paper Contest I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Adel Elsherbini, Kamal Sarabandi[View](#)**Paper Code:** WEP.X.3**Paper Number:** 2100

ADD **Title:** VIRTUAL CONSTELLATION GENERATION BY USE OF INTELLIGENT AGENTS**Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management, Dissemination, Education and Policy**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jean-Pierre Antikidis

View

ADD **Paper Code:** WE2.T06.2**Paper Number:** 2101**Title:** HAITI EARTHQUAKE (12.01.2010) SURFACE SHIFT ESTIMATION USING TERRASAR-X DATA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth III**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Christian Minet, Eineder Michael, Nestor Yague-Martinez

View

ADD **Paper Code:** FR2.T09.1**Paper Number:** 2104**Title:** TERRAHYDRO - A DISTRIBUTED HYDROLOGICAL SYSTEM USING GRAPH STRUCTURE FOR UNIFIED WATER FLOW REPRESENTATION**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Sergio Rosim, Antônio Miguel Vieira Monteiro, Camilo Daleles Rennó, João Ricardo de Freitas Oliveira

View

ADD **Paper Code:** FR2.T08.4**Paper Number:** 2105**Title:** REGISTRATION OF GEOPHYSICAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis IV**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Alexandra Karamitrou, Maria Petrou, Gregory Tsokas

View

ADD **Paper Code:** TU1.T08.5**Paper Number:** 2108**Title:** NONLINEAR UNMIXING OF HYPERSPECTRAL IMAGES USING RADIAL BASIS FUNCTIONS AND ORTHOGONAL LEAST SQUARES**Topic:** Invited Sessions: Spectral Unmixing of Hyperspectral Data**Session:** Spectral Unmixing of Hyperspectral Data I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Yoann Altmann, Nicolas Dobigeon, Steve Mclaughlin, Jean-Yves Tourneret

View

ADD **Paper Code:** MO4.T10.2**Paper Number:** 2109**Title:** SHIP DETECTION WITH QUAD POLARIMETRIC TERRASAR-X DATA: AN ADAPTIVE NOTCH FILTER**Topic:** Oceans: Others**Session:** Oceans II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Armando Marino, Nick Walker

View

ADD **Paper Code:** MOP.J.2**Paper Number:** 2111**Title:** EFFECTS OF RECEIVER SATURATION ON IMAGE FORMATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30**Authors:** Zhou Li, Chunsheng Li, Ze Yu, Yongqiang Zhang**View**ADD **Paper Code:** MO3.T05.3**Paper Number:** 2114**Title:** A FRAMEWORK FOR THE SIMULATION OF HIGH TEMPORAL RESOLUTION IMAGE SERIES**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Jordi Inglada, Olivier Hagolle, Gérard Dedieu**View**ADD **Paper Code:** TUP.J.2**Paper Number:** 2116**Title:** UNMIXING HYPERSPECTRAL IMAGES USING THE GENERALIZED BILINEAR MODEL**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Abderrahim Halimi, Yoann Altmann, Nicolas Dobigeon, Jean-Yves Tourneret**View**ADD **Paper Code:** MOP.H.4**Paper Number:** 2117**Title:** SPECTRAL QUALITY EVALUATION OF PIXEL-FUSED DATA FOR IMPROVED CLASSIFICATION OF REMOTE SENSING IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yuhendra, Ilham Alimuddin, Josaphat Tetuko Sri Sumantyo, Hiroaki Kuze**View**ADD **Paper Code:** TUP.V.4**Paper Number:** 2119**Title:** ANOMALOUS ATMOSPHERIC SIGNALS BEFORE THE 25 SEPTEMBER 2008 ZHONGBA EARTHQUAKE IN CHINA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Guo Guangmeng, Qin Kai**View**ADD **Paper Code:** WEP.J.8**Paper Number:** 2121**Title:** AN IMPROVED APPROACH FOR RETRIEVING SOIL MOISTURE AND SURFACE ROUGHNESS FROM PASSIVE MICROWAVE OBSERVATION**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Qiang Liu, Jiancheng Shi, Shenglei Zhang**View**ADD **Paper Code:** WEP.P.6**Paper Number:** 2122**Title:** CORRELATION BETWEEN PM CONCENTRATIONS AND AEROSOL OPTICAL DEPTH IN EASTERN CHINA BASED ON BP NEURAL NETWORKS**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yerong Wu, Jianping Guo, Xin Zhang, Xiaowen Li**View****Paper Code:** TH4.T06.4**Paper Number:** 2124

ADD **Title:** SBAS-DINSAR TIME SERIES IN THE LAST EIGHTEEN YEARS AT MT.ETNA VOLCANO(ITALY)**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas I**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Giuseppe Solaro, Francesco Casu, Luca Paglia, Antonio Pepe, Susi Pepe, Eugenio Sansosti, Pietro Tizzani, Riccardo Lanari

View

Paper Code: TUP.Y.1**Paper Number:** 2130ADD **Title:** AN ADVANCED MULTI-FREQUENCY RADIOMETER FOR GPM BR FR MISSION**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Carine Bredin, Jean-Claude Orlhac, Jean-Marc Goutoule, Vincent Albuouys

View

Paper Code: TUP.Y.3**Paper Number:** 2134ADD **Title:** MICROWAVE RADIOMETERS FOR WIDE-SWATH ALTIMETERS**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Carine Bredin, Laurent Costes, Jean-Marc Goutoule, Alain Mallet

View

Paper Code: TU2.T04.3**Paper Number:** 2137ADD **Title:** A NOVEL HYBRID APPROACH TO THE ESTIMATION OF BIOPHYSICAL PARAMETERS FROM REMOTELY SENSED DATA**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Student Paper Contest II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Luca Pasolli, Lorenzo Bruzzone, Claudia Notarnicola

View

Paper Code: WEP.O.1**Paper Number:** 2140ADD **Title:** MULTI-SENSOR DATA ASSIMILATION OF AEROSOL OPTICAL DEPTH**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hui Xu, Yong Xue, Jie Guang, Yingjie Li, Ying Wang, Linlu Mei

View

Paper Code: WE4.T07.2**Paper Number:** 2142ADD **Title:** Evaluation of High-Resolution Weather Forecasts in Tropics using Satellite Passive Millimeter-Wave Observations**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Chinnawat Surussavadee

View

Paper Code: MOPE.10**Paper Number:** 2147ADD **Title:** BIOMASS RELATED PARAMETER RETRIEVING FROM QUAD-POL IMAGES BASED ON FREEMAN-DURDEN DECOMPOSITION**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xing-Ou Xu, Armando Marino, Lei Li

ViewADD **Paper Code:** WEP.G.8**Paper Number:** 2149**Title:** EXTRACTING PLANNING AREAS OF PADDY RICE IN SOUTHERN CHINA BY USING EOS/MODIS DATA**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Li Zhang, Wenbin Wu, Qingbo Zhou, Zhongxin Chen**View**ADD **Paper Code:** TUP.W.2**Paper Number:** 2150**Title:** GEOLOGIC INVESTIGATION OF BARTON PENINSULA, KING GEORGE ISLAND, ANTARCTICA USING REFLECTANCE SPECTROSCOPY**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Chang-Uk Hyun, Sung-Min Kim, Sang-Ho Lee, Hyeong-Dong Park**View**ADD **Paper Code:** TU1.T10.3**Paper Number:** 2151**Title:** FIRST TROPICAL CYCLONE OVERFLIGHTS BY THE HURRICANE IMAGING RADIOMETER**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Christopher Ruf, Sayak Biswas, Mark James, W. Linwood Jones, Timothy Miller**View**ADD **Paper Code:** MO4.T10.5**Paper Number:** 2152**Title:** ON THE BOUND WAVE SCATTERING IN A WIND-WAVE TANK**Topic:** Oceans: Others**Session:** Oceans II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Lei Liu, Xiangzhen Yu, Xiaoqing Wang, Jinsong Chong, Wen Hong**View**ADD **Paper Code:** WEP.J.2**Paper Number:** 2155**Title:** IN SITU OBSERVATIONS FROM NOAA-CREST MICROWAVE OBSERVATION UNIT FOR IMPROVED SOIL MOISTURE RETRIEVAL**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Marouane Temimi, Michael Cosh, Tarendra Lakhankar, Xiwu Zhang, Reza Khanbilvardi**View**ADD **Paper Code:** TUP.G.3**Paper Number:** 2156**Title:** METHOD OF OCEANIC WIND RESOURCE ASSESSMENT AT DIFFERENT ALTITUDE ABOVE SEA LEVEL FROM SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction from RADAR and SAR Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shiang Wang, Yun Shao, Wei Tian, Xiaolin Bian, Huaze Gong, Fengli Zhang**View**ADD **Paper Code:** WEP.F.9**Paper Number:** 2157**Title:** EQUATIONAL BUFFER AND ITS POTENTIAL APPLICATION**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science

Session: GIS Techniques II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Jun Li, Yue Zhao, Chao Xie, Hongyu Wang, Fanglin He, Hongbo Jiang, Qiming Qin

View

ADD

Paper Code: TH4.T06.5

Paper Number: 2158

Title: CRUSTAL DEFORMATION STUDIES IN THE SEISMICALLY ACTIVE AREA OF PATRAS GULF (GREECE)

Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas

Session: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas I

Time: Thursday, July 28, 15:20 - 17:00

Authors: Konstantina Vlachou, Vassilios Sakkas, Panagiotis Papadimitriou, Evangelos Lagios

View

ADD

Paper Code: WEP.S.1

Paper Number: 2159

Title: A MULTI-WINDOW TEXTURE CLASSIFICATION AND OBJECT-ORIENTED FEATURE EXTRACTION METHOD WITH AIRBORNE LIDAR PRODUCTS

Topic: Sensors and Platforms: Lidar Sensors

Session: Lidar Sensors II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Xiaokun Zhu, Thierry Toutin

View

ADD

Paper Code: TH3.T10.4

Paper Number: 2161

Title: THE TRMM INTERNATIONAL PARTNERSHIP: A CASE STUDY OF DATA SYSTEM SUCCESS

Topic: Invited Sessions: International Developments and Collaborations in Earth Observation Data Systems

Session: International Developments and Collaborations in Earth Observation Data Systems

Time: Thursday, July 28, 13:20 - 15:00

Authors: Robert Hamilton

View

ADD

Paper Code: TU4.T10.2

Paper Number: 2162

Title: INVESTIGATION OF OYASHIO-KUROSHIO FRONTAL ZONE USING ALOS PALSAR IMAGES AND ANCILLARY INFORMATION

Topic: Invited Sessions: SAR applications in oceanography: from research to operation

Session: SAR Applications in Oceanography: From Research to Operation II

Time: Tuesday, July 26, 15:20 - 17:00

Authors: Leonid Mitnik, Vyacheslav Lobanov

View

ADD

Paper Code: TH1.T04.2

Paper Number: 2165

Title: MULTI-FREQUENCY MICROWAVE EMISSION OF THE EAST ANTARCTIC PLATEAU

Topic: Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow

Session: Active/Passive Microwave Remote Sensing of Terrestrial Snow II

Time: Thursday, July 28, 08:20 - 10:00

Authors: Giovanni Macelloni, Marco Brogioni, Simone Pettinato, Renato Zasso, Andrea Crepaz, Jonathan Zaccaria, Boris Padovan, Mark Drinkwater

View

Paper Code: MO4.T02.3

Paper Number: 2167

Title: POLARIMETRIC SCATTERING FEATURE ESTIMATION FOR ACCURATE WETLAND BOUNDARY CLASSIFICATION

ADD **Topic:** Invited Sessions: Advanced Methods for Polarimetric SAR information extraction**Session:** Advanced Methods for Polarimetric SAR Information Extraction II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Ryoichi Sato, Yoshio Yamaguchi, Hiroyoshi Yamada

View

ADD **Paper Code:** TU2.T01.3**Paper Number:** 2168**Title:** ADAPTIVE LOCAL KRIGING (ALK) TO RETRIEVE THE SLANT RANGE SURFACE MOTION MAPS OF WENCHUAN EARTHQUAKE**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Deformation Interferometry**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Meng-Che Wu, Jianguo Liu

View

ADD **Paper Code:** TU4.T06.3**Paper Number:** 2169**Title:** A SYNERGETIC USE OF ACTIVE MICROWAVE OBSERVATIONS, OPTICAL IMAGES AND TOPOGRAPHY DATA FOR IMPROVED FLOOD MAPPING IN THE GULF OF MEXICO**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Marouane Temimi, Naira Chaouch, Scott Hagen, John Weishampel, Stephen Medeiros, Jesse Feyen, Yuji Funakoshi, Reza Khanbilvardi

View

ADD **Paper Code:** TU2.T08.1**Paper Number:** 2170**Title:** Noise-Robust Spatial Preprocessing Prior to Endmember Extraction from Hyperspectral Data**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Spectral Unmixing of Hyperspectral Data II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Gabriel Martin, Antonio Plaza, Maciel Zortea

View

ADD **Paper Code:** FR2.T08.1**Paper Number:** 2171**Title:** Analysis of SST Images by Weighted Ensemble Transform Kalman Filter**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis IV**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Sai Subrahmanyam Gorthi, Sebastien Beyou, Etienne Memin

View

ADD **Paper Code:** TUP.F.4**Paper Number:** 2172**Title:** Real-Time Spectral Unmixing Using Iterative Error Analysis on Commodity Graphics Processing Units**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Methods and Efficient Implementations in Hyperspectral Imagery**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Sergio Sanchez, Abel Paz, Antonio Plaza

View

ADD **Paper Code:** FR2.T07.5**Paper Number:** 2173**Title:** ATMOSPHERIC CORRECTION OF MULTI-ANGLE CRISM/MRO HYPERSPECTRAL DATA: RETRIEVAL OF AEROSOL OPTICAL THICKNESS AND SURFACE REFLECTANCE**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry III**Time:** Friday, July 29, 10:20 - 12:00

[View](#)ADD **Authors:** Xavier Ceamanos, Sylvain Douté, Alexei Lyapustin**Paper Code:** TH4.T02.2**Paper Number:** 2175**Title:** INTEGRATING GPS AND INSAR TO RESOLVE STRAIN RATES ALONG THE SAN ANDREAS FAULT SYSTEM: CONTRIBUTIONS FROM ALOS-1/2 AND DESDYN**Topic:** Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications**Session:** Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications II**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** David Sandwell, Meng Wei, Xiaopeng Tong, Bridget Smith-Konter[View](#)ADD **Paper Code:** TU2.T08.4**Paper Number:** 2176**Title:** BLIND SOURCE SEPARATION OF HYPERSPECTRAL DATA IN PLANETARY REMOTE SENSING: ENDMEMBER EXTRACTION AND VALIDATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Spectral Unmixing of Hyperspectral Data II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xavier Ceamanos, Sylvain Douté, Bin Luo, Frédéric Schmidt, Gwenaëlle Jouannic, Jocelyn Chanussot[View](#)ADD **Paper Code:** MOP.N.2**Paper Number:** 2177**Title:** LANDSCAPE CHANGE AND THE DRIVING FORCES IN SOURCE AREA OF SHULE RIVER IN ARID NORTHWEST CHINA**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Guojing Yang, Baisheng Ye, Xia Xie, Lihua Zhou[View](#)ADD **Paper Code:** MO4.T08.1**Paper Number:** 2178**Title:** ENHANCED RADAR IMAGING WITH UNCERTAIN REMOTE SENSING DATA: A UNIFIED DYNAMIC EXPERIMENT DESIGN REGULARIZATION FRAMEWORK**Topic:** Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Yuriy Shkvarko, José Tuxpan, Stewart Santos[View](#)ADD **Paper Code:** TUP.B.7**Paper Number:** 2179**Title:** CRITICAL ASSESSMENT OF SYSTEM PERFORMANCE AND ERROR IMPACTS ON BI-DIMENSIONAL OCEAN SURFACE CURRENT MEASUREMENTS FOR WAVEMILL CONCEPT**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Daniele Petrolati, Salvatore D'Addio, Christopher Buck[View](#)ADD **Paper Code:** WEP.H.4**Paper Number:** 2180**Title:** A GENETIC APPROACH TO ESTIMATING RIVER BED TOPOGRAPHY FROM SWOT SATELLITE OBSERVATIONS**Topic:** Land: Wetlands and Inland Waters**Session:** Advances in Earth Sensing and Applications II

- View**
ADD
- Time:** Wednesday, July 27, 17:00 - 18:30
Authors: Matthew McCann, Konstantinos Andreadis, Douglas Alsdorf, Ernesto Rodriquez, Delwyn Moller
- Paper Code:** TH4.T06.1 **Paper Number:** 2181
Title: SAR interferometry for sub millimeter land motion studies
Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas
Session: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas I
Time: Thursday, July 28, 15:20 - 17:00
Authors: Fabio Rocca
- View**
ADD
- Paper Code:** TH3.T01.4 **Paper Number:** 2183
Title: A STABLE MODEL-BASED THREE-COMPONENT DECOMPOSITION APPROACH FOR POLARIMETRIC SAR DATA
Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR
Session: Polarimetric SAR II
Time: Thursday, July 28, 13:20 - 15:00
Authors: Zhihao Jiao, Jiong Chen, Jian Yang
- View**
ADD
- Paper Code:** TUP.O.4 **Paper Number:** 2185
Title: WINDSAT OCEAN SURFACE WIND VECTOR RETRIEVALS IN TROPICAL CYCLONES
Topic: Oceans: Ocean Surface Winds and Currents
Session: Ocean Surface Winds and Currents III
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Amanda Mims, Christopher Ruf, Darren McKague
- View**
ADD
- Paper Code:** TU4.T01.4 **Paper Number:** 2186
Title: GHOST PERSISTENT SCATTERERS RELATED TO SIGNAL REFLECTIONS BETWEEN ADJACENT BUILDINGS
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: Time-Series and Stacking Interferometry II
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Stefan Auer, Stefan Gernhardt, Richard Bamler
- View**
ADD
- Paper Code:** TUP.M.3 **Paper Number:** 2187
Title: Quick Assessment of a Remote Sensing-based Method for Earthquake Damage of Yushu Qinghai in China
Topic: Land: Natural Disaster / Land Slide
Session: Remote Sensing of Land Deformation and Floods
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Long Wang, Aixia Dou, Xiaoqing Wang, Xiang Ding, Yanfang Dong
- View**
ADD
- Paper Code:** MOP.A.5 **Paper Number:** 2189
Title: EVALUATION OF WATER PERMITTIVITY MODELS FROM MICROWAVE OBSERVATIONS OF COLD CLOUDS
Topic: Atmosphere: Atmospheric Sounding
Session: Electromagnetic Modeling and Data Analysis
Time: Monday, July 25, 17:00 - 18:30
Authors: Maria P Cadeddu, David D Turner
- View**
- Paper Code:** FR1.T04.4 **Paper Number:** 2192

ADD

Title: THE ATMOSPHERIC RADIATION MEASUREMENT (ARM) PROGRAM NETWORK OF MICROWAVE RADIOMETERS: INSTRUMENTATION, DATA, AND RETRIEVALS

Topic: Sensors and Platforms: Gound Based System

Session: Ground Based System II

Time: Friday, July 29, 08:20 - 10:00

Authors: Maria P Cadeddu, David D Turner

View

Paper Code: WEP.J.9

Paper Number: 2195

ADD

Title: ENHANCING THE SPATIAL RESOLUTION OF SMOS SOIL MOISTURE DATA OVER SPAIN

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Passive Microwave

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Maria Piles, Alessandra Monerris, Mercè Vall-Ilossera, Adriano Camps

View

Paper Code: TU2.T07.3

Paper Number: 2196

ADD

Title: PRECIPITATION TYPE AND PROFILE CLASSIFICATION FOR GPM-DPR

Topic: Invited Sessions: Global Precipitation Mission

Session: Global Precipitation Mission

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Minda Le, Venkatachalam Chandrasekar

View

Paper Code: MOP.T.6

Paper Number: 2199

ADD

Title: FREQUENCY AND TIME DOMAIN MEASUREMENTS USING CROSS WELL RADAR TO DEVELOP TESTBEDS FOR ELECTROMAGNETIC PROPERTIES ESTIMATION

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications I

Time: Monday, July 25, 17:00 - 18:30

Authors: Jonathan Toro-Vazquez, Rafael A. Rodriguez-Solis, Ingrid Padilla

View

Paper Code: FR4.T09.1

Paper Number: 2200

ADD

Title: SYNTHETIC APERTURE RADAR DATA ASSIMILATION FOR SEA ICE ANALYSIS

Topic: Advances in Analysis Techniques (Theoretical): Others

Session: Advances in Analysis Techniques II

Time: Friday, July 29, 15:20 - 17:00

Authors: N. Gokhan Kasapoglu

View

Paper Code: TU3.T02.4

Paper Number: 2203

ADD

Title: MULTI-SIGNAL COMPRESSED SENSING FOR POLARIMETRIC SAR TOMOGRAPHY

Topic: Invited Sessions: Signal processing techniques for for POL-SAR and POL-inSAR applications

Session: Signal Processing Techniques for POLSAR and POLINSAR Applications

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Esteban Aguilera, Matteo Nannini, Andreas Reigber

View

Paper Code: TU3.T09.4

Paper Number: 2205

ADD

Title: DESIGN OF BENCHMARK IMAGERY FOR VALIDATING FACILITY ANNOTATION ALGORITHMS

Topic: Invited Sessions: Data Mining and Machine Learning for Remote Sensing

Session: Data Mining and Machine Learning for Remote Sensing I

Time: Tuesday, July 26, 13:20 - 15:00**Authors:** Randy Roberts, Paul Pope, Ranga Raju Vatsavai, Ming Jiang, Lloyd Arrowood, Timothy Trucano, Shaun Gleason, Anil Cheriyyadat, Alexandre Sorokine, Aggelos Katsaggelos, Thrasylvoulos Pappas, Lucinda Gaines, Lawrence Chilton**View****ADD** **Paper Code:** MOP.R.1**Paper Number:** 2210**Title:** DENSE MULTI-TEMPORAL OBSERVATIONS OF THE BOREAL LANDSCAPE WITHIN THE ASF MASK**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Bruce Chapman, Kyle McDonald, Mahta Moghaddam, Jane Whitcomb**View****ADD** **Paper Code:** TH1.T10.5**Paper Number:** 2211**Title:** ARCTIC COLLABORATIVE ENVIRONMENT: A NEW MULTI-NATIONAL PARTNERSHIP FOR ARCTIC SCIENCE AND DECISION SUPPORT**Topic:** Oceans: Sea Ice**Session:** Sea Ice II**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Charles Laymon, Martin Kress, Jeff McCracken, Stephen Spehn, Steve Tanner**View****ADD** **Paper Code:** TU4.T10.4**Paper Number:** 2213**Title:** SAR OBSERVATION AND WRF SIMULATION OF MARINE ATMOSPHERIC BOUNDARY LAYER PHENOMENA**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Xiaofeng Li, Weizhong Zheng, Xiaofeng Yang, William Pichel, Ziwei Li**View****ADD** **Paper Code:** WE2.T10.1**Paper Number:** 2214**Title:** SWOT: A HIGH-RESOLUTION WIDE-SWATH ALTIMETRY MISSION FOR OCEANOGRAPHY AND HYDROLOGY**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission I**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Lee-Lueng Fu, Ernesto Rodriguez, Douglas Alsdorf, Rosemary Morrow, Nelly Mognard**View****ADD** **Paper Code:** TH2.T01.3**Paper Number:** 2216**Title:** TERRAIN CATEGORIZATION BASED ON SCATTERING MECHANISMS FOR SINGLE-POL HIGH-RESOLUTION TERRASAR-X IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR/InSAR Image Extraction and Improvement Techniques**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Jong-Sen Lee, Thomas Ainsworth, Kun-Shan Chen, Irena Hajnsek**View****ADD** **Paper Code:** MO3.T04.1**Paper Number:** 2218**Title:** NOAA'S JOINT POLAR SATELLITE SYSTEM AND THE NPP SATELLITE: DELIVERING THE NEXT GENERATION OF ENVIRONMENTAL EARTH OBSERVATIONS**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** US Joint Polar Satellite System I

Time: Monday, July 25, 13:20 - 15:00**Authors:** Karen St Germain, James Gleason, Robert Murphy, Carl Hoffman, John Furgerson**View****ADD** **Paper Code:** TUP.G.7**Paper Number:** 2219**Title:** SUBSPACE SEPARATION METHOD FOR ISAR IMAGING USING THE MUSIC ALGORITHM**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction from RADAR and SAR Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jon Mitchell, Saibun Tjuatja**View****ADD** **Paper Code:** MO4.T08.2**Paper Number:** 2220**Title:** Aggregation of Parallel Computing and Hardware/Software Co-Design Techniques for High-Performance Remote Sensing Applications**Topic:** Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Alejandro Castillo Atoche, Orlando Palma Marrufo, Luis Ricalde Castellanos**View****ADD** **Paper Code:** WEP.C.8**Paper Number:** 2223**Title:** A NEW WEIGHTED FUZZY C-MEANS ALGORITHM FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Chih-Cheng Hung, Edward Jung, Bor-Chen Kuo, Yang Zhang**View****ADD** **Paper Code:** FR2.T08.2**Paper Number:** 2224**Title:** CONSTRAINED OPTICAL FLOW FOR AERIAL IMAGE CHANGE DETECTION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis IV**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Nicolas Bourdis, Denis Marraud, Hichem Sahbi**View****ADD** **Paper Code:** TU2.T10.4**Paper Number:** 2226**Title:** WIND RETRIEVAL WITH CROSS-POLARIZED SAR RETURNS**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Paul Hwang, William Perrie, Biao Zhang**View****ADD** **Paper Code:** FR2.T08.3**Paper Number:** 2227**Title:** PRINCIPAL POLYNOMIAL ANALYSIS FOR REMOTE SENSING DATA PROCESSING**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis IV**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Valero Laparra, Devis Tuia, Sandra Jiménez, Gustavo Camps-Valls, Jesús Malo

ViewADD **Paper Code:** TH4.T09.3**Paper Number:** 2229**Title:** OPTIMIZING THE SELF-ORGANIZING MAP FOR PATTERN AND IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification and Change Detection**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Chih-Cheng Hung, Hassan Ijaz, Edward Jung, Bor-Chen Kuo**View**ADD **Paper Code:** MO4.T08.3**Paper Number:** 2230**Title:** A Multi-Processor System on Chip Architecture for Real Time Remote Sensing Data Processing**Topic:** Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Alejandro Castillo Atoche, Jaime Ortegon Aguilar, Javier Vazquez Castillo**View**ADD **Paper Code:** TU2.T10.1**Paper Number:** 2231**Title:** NOAA OPERATIONAL SAR SEA SURFACE WIND PRODUCTS**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation I**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** William Pichel, Frank Monaldo, Christopher Jackson, Xiaofeng Li, John Sapper, Xiaofang Yang**View**ADD **Paper Code:** MO3.T08.1**Paper Number:** 2232**Title:** INVENTORY REGION VALLES, JALISCO. MEXICO**Topic:** Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Juan Jorge Rodriguez Bautista, Francisco Esteban Reyes Sanchez**View**ADD **Paper Code:** FR3.T01.4**Paper Number:** 2233**Title:** NONLINEAR RCM COMPENSATION METHOD FOR SPACEBORNE/AIRBORNE FORWARD-LOOKING BISTATIC SAR**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Zhe Liu, Jianyu Yang, Xiaoling Zhang**View**ADD **Paper Code:** TU3.T10.2**Paper Number:** 2234**Title:** NORMAL MODES ANALYSIS OF RIVERSONDE DATA IN A TIDAL CHANNEL**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Calvin Teague, Donald Barrick, David Honegger**View**ADD **Paper Code:** TU1.T10.1**Paper Number:** 2235**Title:** TOWARDS AN OPTIMAL NOISE VERSUS RESOLUTION TRADE-OFF IN WIND SCATTEROMETRY**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents I

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Brent Williams

View

ADD

Paper Code: TH2.T03.2

Paper Number: 2237

Title: GEOSTAR-II: A PROTOTYPE WATER VAPOR IMAGER/SOUNDER FOR THE PATH MISSION

Topic: Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers

Session: Interferometric Synthetic Aperture Microwave Radiometers II

Time: Thursday, July 28, 10:20 - 12:00

Authors: Todd Gaier, Bjorn Lambrigtsen, Pekka Kangaslahti, Boon Lim, Alan Tanner, Dennis Harding, Heather Owen, Mary Soria, Ian O'Dwyer, Christopher Ruf, Ryan Miller, Bruce Block, Michael Flynn, Sterling Whitaker

View

ADD

Paper Code: TU3.T02.2

Paper Number: 2238

Title: On the Extension of the Product Model in Polars Processing for Unsupervised Classification Using Information Geometry of Covariance Matrices

Topic: Invited Sessions: Signal processing techniques for for POL-SAR and POL-inSAR applications

Session: Signal Processing Techniques for POLSAR and POLINSAR Applications

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Pierre Formont, Jean-Philippe Ovarlez, Frédéric Pascal, Gabriel Vasile, Laurent Ferro-Famil

View

ADD

Paper Code: MO3.T10.5

Paper Number: 2239

Title: BIDIRECTIONAL REFLECTANCE FUNCTION IN COASTAL WATERS AND ITS APPLICATION TO THE VALIDATION OF THE OCEAN COLOR SATELLITES

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Ocean Biology (Color) and Water Quality I

Time: Monday, July 25, 13:20 - 15:00

Authors: Alexander Gilerson, Soe Hlaing, Tristan Harmel, Alberto Tonizzo, Robert Arnone, Alan Weidemann, Samir Ahmed

View

ADD

Paper Code: MO4.T04.5

Paper Number: 2240

Title: USE OF NPP DATA IN THE JOINT CENTER FOR SATELLITE DATA ASSIMILATION

Topic: Atmosphere: Weather Prediction and Data Assimilation

Session: US Joint Polar Satellite System II

Time: Monday, July 25, 15:20 - 17:00

Authors: Lars Peter Riishojgaard

View

ADD

Paper Code: TH4.T04.1

Paper Number: 2241

Title: TERRASAR-X OBSERVATIONS OF ANTARCTIC OUTLET GLACIERS IN THE ROSS SEA SECTOR

Topic: Land: Land Ice and Snow

Session: Remote Sensing of Polar Regions

Time: Thursday, July 28, 15:20 - 17:00

Authors: Kenneth Jezek, Wael Abdel Jaber, Dana Floricioiu

View

ADD

Paper Code: MOP.J.8

Paper Number: 2242

Title: ADAPTIVE FILTERING APPROACH TO MULTISPECTRAL IMAGE PROCESSING

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30

Authors: Andrzej Lesniak, Mateusz Twardowski

[View](#)ADD **Paper Code:** MO4.T10.4**Paper Number:** 2244**Title:** INTERNAL WAVES IN THE LOMBOK STRAIT REVEALED BY ALOS PALSAR IMAGES**Topic:** Oceans: Others**Session:** Oceans II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** I Wayan Gede Astawa Karang, Fumihiko Nishio[View](#)ADD **Paper Code:** TH3.T10.1**Paper Number:** 2246**Title:** IMPORTANCE OF INTERNATIONAL COLLABORATIONS IN DATA SYSTEMS**Topic:** Invited Sessions: International Developments and Collaborations in Earth Observation Data Systems**Session:** International Developments and Collaborations in Earth Observation Data Systems**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Martha Maiden, Dawn Lowe, Francis Lindsay, Andrew Mitchell, Jeanne Behnke, Karen Michael, Virendra Thanvi, Yonsook Enloe, Michael Burnett[View](#)ADD **Paper Code:** FR1.T01.2**Paper Number:** 2247**Title:** Temporal decorrelation analysis at P band over tropical forest**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLINSAR**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Sandrine Daniel, Pascale Dubois-Fernandez, Aurélien Arnaubec, Sébastien Angelliaume[View](#)ADD **Paper Code:** TH4.T03.3**Paper Number:** 2248**Title:** EXTRACTION OF REFLECTIVITY FROM MICROWAVE BLACKBODY TARGET WITH FREE-SPACE MEASUREMENTS**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Calibration Techniques in Microwave Radiometry**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Dazhen Gu, Derek Houtz, James Randa, David K. Walker[View](#)ADD **Paper Code:** MO3.T05.2**Paper Number:** 2250**Title:** SPECTRAL CLASSIFICATION OF WORLDVIEW-2 MULTI-ANGLE SEQUENCE**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Nathan Longbotham, William J. Emery, Chad Bleiler, Chuck Chaapel, Chris Padwick, Fabio Pacifici[View](#)ADD **Paper Code:** WE4.T10.3**Paper Number:** 2251**Title:** Using HF radar coastal currents to correct satellite altimetry**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** William J. Emery, Carolyn Roesler, Waqas Qazi[View](#)ADD **Paper Code:** TUP.D.9**Paper Number:** 2252**Title:** FEATURE SELECTION UNSING KERNEL BASED LOCAL FISHER DISCRIMINANT ANALYSIS FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Classification of Hyperspectral Data

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Guangyun Zhang, Xiuping Jia

View

ADD

Paper Code: TH1.T01.3

Paper Number: 2254

Title: Demonstration of SAR Interferometry under crossing orbits using TerraSAR-X and TanDEM-X

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High and Low Resolution SAR / InSAR

Time: Thursday, July 28, 08:20 - 10:00

Authors: Paco López-Dekker, Pau Prats, Francesco De Zan, Steffen Wollstadt, Daniel Schulze, Gerhard Krieger, Alberto Moreira

View

ADD

Paper Code: MO3.T05.1

Paper Number: 2255

Title: SPATIAL CLASSIFICATION OF WORLDVIEW-2 MULTI-ANGLE SEQUENCE

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change I

Time: Monday, July 25, 13:20 - 15:00

Authors: Nathan Longbotham, William J. Emery, Chad Bleiler, Chuck Chaapel, Chris Padwick, Fabio Pacifici

View

ADD

Paper Code: WE2.T03.4

Paper Number: 2257

Title: EVALUATION OF SMAP LEVEL 2 SOIL MOISTURE ALGORITHMS USING SMOS DATA

Topic: Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications

Session: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications II

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Rajat Bindlish, Thomas Jackson, Tianjie Zhao, Michael Cosh, Steven Chan, Peggy O'Neill, Eni Njoku, Andreas Colliander, Yann H. Kerr, Jiancheng Shi

View

ADD

Paper Code: MOP.Y.10

Paper Number: 2258

Title: A SUMMARY OF THE PERFORMANCE AND LONG-TERM STABILITY OF THE PRE-LAUNCH RADIOMETRIC CALIBRATION FACILITY FOR THE CLOUDS AND THE EARTH'S RADIANT ENERGY SYSTEM (CERES) INSTRUMENTS

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Passive Optical and Hyperspectral Sensors I

Time: Monday, July 25, 17:00 - 18:30

Authors: James McCarthy, Herbert Bitting, Thomas Evert, Mark Frink, Theodore Hedman, Paul Sakaguchi, Mark Folkman

View

ADD

Paper Code: FR1.T06.1

Paper Number: 2261

Title: Large-scale deformation mapping over Danakil depression (Afar, Ethiopia) from Wide-Swath SAR interferometric time series

Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas

Session: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas II

Time: Friday, July 29, 08:20 - 10:00

Authors: Pablo J. Gonzalez, Nicolas d'Oreye, Eugenio Sansosti, Kristy F. Tiampo, Jose Fernandez

View

Paper Code: TU3.T02.3

Paper Number: 2264

ADD **Title:** COHERENCE LINEARITY AND SKP-STRUCTURED MATRICES IN MULTI-BASELINE POLINSAR**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Signal Processing Techniques for POLSAR and POLINSAR Applications**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Stefano Tebaldini, Fabio Rocca

View

Paper Code: TU3.T01.4**Paper Number:** 2265ADD **Title:** NEW IMPROVEMENTS OF THE EXTENDED MINIMUM COST FLOW PHASE UNWRAPPING FOR PROCESSING MULTITEMPORAL FULL RESOLUTION INTERFEROGRAMS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Time-Series and Stacking Interferometry I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Antonio Pepe, Manuela Bonano, Yang Yang, Michele Manunta, Riccardo Lanari

View

Paper Code: MOP.R.2**Paper Number:** 2266ADD **Title:** MONITORING WETLAND CONDITIONS IN SEMI-ARID ENVIRONMENTS IN CENTRAL SPAIN APPLYING QUAD-POL C AND L BAND DATA**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Magaly Koch, Thomas Schmid, Melissa Reyes, José Gumuzzio

View

Paper Code: WE2.T10.2**Paper Number:** 2268ADD **Title:** HYDROLOGIC ESTIMATION FROM SWOT MEASUREMENTS: METHODS AND IMPLICATIONS**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission I**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Konstantinos Andreadis, Ernesto Rodriguez, Delwyn Moller, Douglas Alsdorf, Michael Durand

View

Paper Code: WE1.T07.2**Paper Number:** 2270ADD **Title:** TOWARDS NEXT-GENERATION CLOUD AND PRECIPITATION RADAR SYSTEMS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Simone Tanelli, Eastwood Im, Stephen Durden, Houfei Fang

View

Paper Code: FR3.T08.2**Paper Number:** 2271ADD **Title:** LINEAR AND NONLINEAR IMAGING SPECTROMETER DENOISING ALGORITHMS ASSESSED THROUGH CHEMISTRY ESTIMATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in the Analysis of Hyperspectral Data**Time:** Friday, July 29, 13:20 - 15:00**Authors:** David Goodenough, Geoffrey S. Quinn, Piper Gordon, K. Olaf Niemann, Hao Chen

View

Paper Code: FR2.T07.1**Paper Number:** 2272

ADD **Title:** DUAL-WAVELENGTH HIGH-SPECTRAL-RESOLUTION LIDAR FOR ADVANCED CLASSIFICATION AND RETRIEVAL OF AEROSOLS**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Tomoaki Nishizawa, Nobuo Sugimoto, Ichiro Matsui

View

Paper Code: TH4.T03.4**Paper Number:** 2273**Title:** DEVELOPMENT OF HIGH TEMPERATURE NOISE SOURCE (HTS) FOR ADVANCED MICROWAVE SCANNING RADIOMETER 2 (AMSR2)**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Calibration Techniques in Microwave Radiometry**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Takaaki Ishikawa, Shinichi Yokobori, Takeshi Ito, Tatsuhiro Noguchi, Norimasa Ito, Marehito KasaharaADD

View

Paper Code: MOP.Q.1**Paper Number:** 2274**Title:** MONITORING VEGETATION GREENNESS VARIATIONS IN QINGHAI-TEBET PLATEAU WITH MODIS VEGETATION INDEX**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Li Zhang, Huadong Guo, Liping Lei, Dongmei YanADD

View

Paper Code: TUP.D.5**Paper Number:** 2275**Title:** ITERATIVE SUPPORT VECTOR MACHINE FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shih-Yu Chen, Yen-Chieh Ouyang, Chinsu Lin, Chein-I ChangADD

View

Paper Code: MOP.W.3**Paper Number:** 2278**Title:** AN ESPRIT BASED APPROACH FOR SUPER-RESOLUTION DIRECTION FINDING WITH PARTLY CALIBRATED OR NONCOHERENT SPARSE ARRAY**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Wensheng Chen, Xiaojian XuADD

View

Paper Code: FR4.T06.2**Paper Number:** 2279**Title:** NATION-WIDE FLOOD RISK ASSESSMENT USING INUNDATION LEVEL MODEL AND MODIS TIME-SERIES IMAGERY**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Kwak Youngjoo, Park Jonggeol, Fukami KazuhikoADD

View

Paper Code: TH1.T10.1**Paper Number:** 2280**Title:** REMOTE SENSING OF ARCTIC PERENNIAL SEA ICE REDUCTION AND ITS IMPACT ON TROPOPHERIC CHEMICAL PROCESSES**Topic:** Oceans: Sea Ice**Session:** Sea Ice II**Time:** Thursday, July 28, 08:20 - 10:00ADD

[View](#)ADD **Authors:** Son Nghiem, Pablo Clemente-Colón, Ignatius Rigor, Gregory Neumann**Paper Code:** TUP.R.1**Paper Number:** 2283**Title:** AN INFORMATION SYSTEM FOR SHIP DETECTION AND IDENTIFICATION**Topic:** Oceans: Others**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Edward Ross, Bustanul Arifin, Yuval Brodsky[View](#)ADD **Paper Code:** MO3.T03.3**Paper Number:** 2284**Title:** VALIDATION OF SMOS L1C AND L2 PRODUCTS WITH AIRBORNE AND IN-SITU OBSERVATIONS ACROSS SOUTH-EASTERN AUSTRALIA**Topic:** Land: Soils and Soil Moisture**Session:** SMOS Soil Moisture Validation**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Christoph Rüdiger, Jeffrey P. Walker, Yann H. Kerr, Olivier Merlin, Arnaud Mialon, Edward J. Kim[View](#)ADD **Paper Code:** MOPE.6**Paper Number:** 2285**Title:** SOME PECULIARITIES OF POLARIMETRIC CLASSIFICATION FOR WINTER DATA TAKES**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Ludmila Zakharova[View](#)ADD **Paper Code:** TH2.T04.1**Paper Number:** 2287**Title:** Effects of Snowpack Parameters and Layering Processes at X- and Ku-band Backscatter**Topic:** Land: Land Ice and Snow**Session:** Active Microwave Remote Sensing of Snow and Ice**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Ali Nadir Arslan, Jouni Pulliainen, Juha Lemmetyinen, Thomas Nagler, Helmut Rott, Michael Kern[View](#)ADD **Paper Code:** MOPE.7**Paper Number:** 2288**Title:** ESTIMATION OF LEAF AREA INDEX (LAI) USING POLINSAR: A PRELIMINARY RESEARCH**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Wenxue Fu, Huadong Guo, Xinwu Li[View](#)ADD **Paper Code:** WEP.M.7**Paper Number:** 2291**Title:** SNOWCARBO: Monitoring and assessment of carbon balance related phenomena in Finland and northern Eurasia**Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ali Nadir Arslan, Olli-Pekka Mattila, Tiina Markkanen, Kristin Böttcher, Jouni Susiluoto, Markus Törmä, Juha Lemmetyinen, Sari Metsämäki, Mika Aurela, Mikko Kervinen, Matias Takala, Pekka Härmä, Tuula Aalto, Tuomas Laurila, Jouni Pulliainen

[View](#)ADD **Paper Code:** WE4.T05.3**Paper Number:** 2292**Title:** MONITORING MODEL OF ABOVEGROUND BIOMASS IN GANNAN GRASSLAND BASED ON REMOTE SENSING**Topic:** Land: Forests and Vegetation**Session:** Agricultural Applications**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Jing Wang, Ni Guo, Dihua Cai, Hui Han, Yun Liang[View](#)ADD **Paper Code:** TU1.T05.2**Paper Number:** 2295**Title:** ACCURACY ASSESSMENT OF YELLOWSTONE LAND COVER CLASSIFICATION USING POLARIMETRIC UAVSAR**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change V**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Don Atwood, Scott Arko, Rudi Gens[View](#)ADD **Paper Code:** MOP.O.9**Paper Number:** 2298**Title:** CLASSIFICATION OF CASI-3 HYPERSPECTRAL IMAGE BY SUBSPACE METHOD**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change IV**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Buho Hoshino, Hasi Bagan, Akihiro Nakazawa, Masami Kaneko, Masaki Kawai, Tetuo Yabuki[View](#)ADD **Paper Code:** WEP.K.7**Paper Number:** 2299**Title:** ROOT ZONE SOIL MOISTURE ESTIMATION BY TERRA/MODIS IMAGERY OVER THE TROPICAL CATCHMENT IN NORTHERN THAILAND**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Tzu-Yin Chang, Yuei-An Liou, Yi-Chen Wang, Alan Ziegler[View](#)ADD **Paper Code:** WEP.E.2**Paper Number:** 2301**Title:** Extraction of Linear Surface Features from Remote Sensing Image to Construction Crop Acreage Survey Sampling Frame**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** GIS Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hui Deng, Di Wang, Jia Liu, Limin Wang, Zhongxin Chen, Qingbo Zhou[View](#)ADD **Paper Code:** TUP.N.5**Paper Number:** 2310**Title:** RETRIEVAL OF SEA SURFACE TEMPERATURE FROM FY-3A VIRR DATA**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hongyan Wang, Lei Guan, Fan Wu[View](#)ADD **Paper Code:** WEP.K.3**Paper Number:** 2313**Title:** PHYSICALLY BASED INTEGRATED ACTIVE-PASSIVE SOIL MOISTURE RETRIEVAL ALGORITHM FOR SMAP FOR BARE SURFACES**Topic:** Land: Land Use and Land Cover Change**Session:** Soil Moisture Techniques

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ruzbeh Akbar, Mahta Moghaddam**Paper Code:** FR1.T09.1**Paper Number:** 2317**Title:** Prediction of change of winter wheat in North China by using IPCC-AR4 model data**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** GIS and Agro-Geoinformatics Applications**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Mingwei Zhang, Hui Deng, Jianqiang Ren, Jinlong Fan, Guicai Li, Zhongxin Chen**View**ADD **Paper Code:** TUPE.2**Paper Number:** 2322**Title:** RETRIEVAL TOTAL SUSPENDED SUBSTANCE CONCENTRATION OF THREE GORGES BASED ON CHRIS/PROBA REMOTE SENSING IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qian Shen, Bing Zhang, Junsheng Li, Yuanfeng Wu, Yanhong Wu, Hao Zhang, Dailiang Peng**View**ADD **Paper Code:** WEP.N.2**Paper Number:** 2323**Title:** FIRST OBSERVATIONS OF AN X-BAND DUAL POLARIZATION DOPPLER WEATHER RADAR ON THE WESTERN COAST OF PUERTO RICO**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Miguel B. Galvez, Jose Colom, Venkatachalam Chandrasekar, Francesc Junyent, Sandra Cruz-Pol, Rafael A. Rodriguez-Solis, Ki-Ryong Kwon**View**ADD **Paper Code:** TH2.T08.2**Paper Number:** 2326**Title:** SAR DENOISING USING WAVELET-DOMAIN STATISTIC MODEL AND MAXIMUM-MODULUS CRITERION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Qiuzhe Yu, Wentao Lv, Wenxian Yu, Peilin Liu**View**ADD **Paper Code:** WEP.C.4**Paper Number:** 2327**Title:** A CLUSTER ENSEMBLE METHOD FOR ROBUST UNSUPERVISED CLASSIFICATION OF VHR REMOTE SENSING IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Naif Alajlan, Nassim Ammour, Yakoub Bazi, Haikel Hichri**View**ADD **Paper Code:** TUP.F.7**Paper Number:** 2328**Title:** RESOLUTION ENHANCEMENT FOR HYPERSPECTRAL DATA OF CHINA'S FIRST LUNAR ORBITER CHANG'E-I**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Methods and Efficient Implementations in Hyperspectral Imagery**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Junping Zhang, Xiao Zhang, Bin Zou, Wenyan Tang

[View](#)ADD **Paper Code:** MOPE.8**Paper Number:** 2329**Title:** TARGET DETECTION BASED ON L- AND C-BAND POLSAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Bin Zou, Hongjun Cai, Wooil M Moon, Maoliu Lin[View](#)ADD **Paper Code:** WEP.S.2**Paper Number:** 2330**Title:** Pose Determination from Airborne LiDAR data and Onboard Image for Future Driver Assistance Systems**Topic:** Sensors and Platforms: Lidar Sensors**Session:** Lidar Sensors II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hui-Ying Li, Zhi Wang, Gang Su, Sheng-Bo Chen[View](#)ADD **Paper Code:** WE1.T01.2**Paper Number:** 2331**Title:** IMPROVED SHIP DETECTION USING DUAL-FREQUENCY POLARIMETRIC SYNTHETIC APERTURE RADAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLSAR Applications**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Ken Yoong Lee, Timo Bretschneider[View](#)ADD **Paper Code:** WE2.T07.5**Paper Number:** 2332**Title:** CIRRUS DIRECT OPTICAL DEPTH RETRIEVAL OVER OCEAN USING THE A-TRAIN**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Damien Josset, Yongxiang Hu, Jacques Pelon, Peng-Wang Zhai, Patricia Lucker[View](#)ADD **Paper Code:** MO4.T05.5**Paper Number:** 2333**Title:** IMPROVING CHANGE VECTOR ANALYSIS IN MULTI-TEMPORAL SPACE TO DETECT LAND COVER CHANGES BY USING CROSS-CORRELOGRAM SPECTRAL MATCHING ALGORITHM**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Yuanyuan Zhao, Chunyang He[View](#)ADD **Paper Code:** TUP.Y.2**Paper Number:** 2336**Title:** EVALUATION OF FY3B-MWRI INSTRUMENT ON-ORBIT CALIBRATION ACCURACY**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hu Yang, Liqing Lv, Hongxin Xu, Jiakai He, Shengli Wu[View](#)ADD **Paper Code:** WEP.Q.1**Paper Number:** 2338**Title:** STUDY ON INFORMATION EXTRACTION OF RAPE ACREAGE BASED ON TM REMOTE SENSING IMAGE**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Agroecosystems I

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Dandan Li, Jia Liu, Qingbo Zhou, Limin Wang, Qing Huang**Paper Code:** WEP.O.11**Paper Number:** 2340**Title:** Solar irradiance estimated from FY-2 data at some North China sites**Topic:** Environmental Applications: Agroecosystems**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Mingwei Zhang, Jian Liu, Guicai Li, Jinlong Fan, Hui Deng, Jianqiang Ren, Zhongxin Chen**View**ADD **Paper Code:** TUP.T.3**Paper Number:** 2341**Title:** COMPREHENSIVE PERFORMANCE ANALYSIS OF SPATIO-TEMPORAL DATA MINING APPROACH ON MULTI-TEMPORAL COASTAL REMOTE SENSING DATASETS**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Balakrishna Gokaraju, Surya Durbha, Roger King, Nicolas Younan**View**ADD **Paper Code:** FR2.T01.3**Paper Number:** 2342**Title:** CHANNEL ERROR CORRECTION FOR WIDEBAND SAR: A JOINT MULTIPLE SUBPULSES PROCESSING METHOD**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR Processing Techniques**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Shuxuan Chen, Limin Jiang, Maosheng Xiang**View**ADD **Paper Code:** WE1.T08.1**Paper Number:** 2344**Title:** Particle Swarm Optimization-based Dimensionality Reduction for Hyperspectral Image Classification**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Feature Extraction and Band Selection in Hyperspectral Imagery**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** He Yang, Qian Du**View**ADD **Paper Code:** WE3.T07.2**Paper Number:** 2348**Title:** THRESHOLDS OF DETECTION FOR FALLING SNOW FROM SATELLITE-BORNE ACTIVE AND PASSIVE SENSORS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds III**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Gail Skofronick-Jackson, Benjamin Johnson**View**ADD **Paper Code:** WEP.K.5**Paper Number:** 2349**Title:** SOIL MOISTURE INVERSION FROM X-BAND SAR AND SCATTEROMETER DATA OF VEGETATION FIELDS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Soon-Gu Kwon, Ji-Hwan Hwang, Yisok Oh**View****Paper Code:** WEP.W.5**Paper Number:** 2351**Title:** Pulse Compression for Radar using Zero-Correlation Zone Sequence Sets

ADD **Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Takao Maeda, Shigeru Kanemoto, Takafumi Hayashi

View

ADD **Paper Code:** MOP.M.9**Paper Number:** 2352**Title:** EFFECTS OF NOISE, SAMPLING RATE AND SIGNAL SPARSITY FOR COMPRESSED SENSING SYNTHETIC APERTURE RADAR PULSE COMPRESSION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Peng Xiao, Chunsheng Li, Ze Yu

View

ADD **Paper Code:** WEP.M.2**Paper Number:** 2356**Title:** MAPPING SNOW/NO-SNOW COVER FROM SSMI DATA AND SWE GAMMA RAY MEASUREMENT FOR A FORESTED WATERSHED IN QUEBEC (CANADA)**Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Danielle De Sève, Yves Choquette, Pierre Lavigne

View

ADD **Paper Code:** MOP.E.4**Paper Number:** 2357**Title:** BUILDING PARAMETERS EXTRACTION FROM POLINSAR IMAGE USING HYBRID METHOD**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hongjun Cai, Peng He, Bin Zou, Maoliu Lin

View

ADD **Paper Code:** TUP.B.5**Paper Number:** 2359**Title:** ALONG-TRACK BASELINE ESTIMATION FOR AIRBORNE INSAR SYSTEM WITH A HYBRID BASELINE**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shuxuan Chen, Limin Jiang, Maosheng Xiang

View

ADD **Paper Code:** WEP.F.4**Paper Number:** 2360**Title:** OPTIMIZING EXPRESSWAY MAINTENANCE PLANNING BY COUPLING ANT ALGORITHM AND GEOGRAPHY INFORMATION SYSTEM TRANSPORTATION IN HUBEI PROVINCE, CHINA**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hongga Li, Xiaoxia Huang, Quan Feng

View

ADD **Paper Code:** TUP.H.9**Paper Number:** 2362**Title:** ANALYSIS OF ENVIRONMENTAL ELECTROMAGNETIC SIGNAL USING NONNEGATIVE MATRIX FACTORIZATION MINIMIZING QUASI-L1 NORM**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Monitoring of the Environment and Retrieval of Physical Parameters

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Motoaki Mouri, Arao Funase, Andrzej Cichocki, Ichi Takumi, Hiroshi Yasukawa

View

ADD

Paper Code: WE1.T05.2

Paper Number: 2363

Title: MONITORING FOREST MANAGEMENT ACTIVITIES USING AIRBORNE LIDAR AND ALOS PALSAR

Topic: Land: Forests and Vegetation

Session: Modeling Approaches

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Akira Kato, Manabu Watanabe, Tatsuaki Kobayashi, Yoshio Yamaguchi, Joji Iisaka

View

ADD

Paper Code: WE3.T01.2

Paper Number: 2370

Title: A WEIGHTED CALIBRATION METHOD OF INTERFEROMETRIC SAR DATA

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Calibration and Error Mitigation

Time: Wednesday, July 27, 13:20 - 15:00

Authors: Yongfei Mao, Maosheng Xiang, Lideng Wei, Daojing Li

View

ADD

Paper Code: MO4.T06.3

Paper Number: 2375

Title: ANTARCTIC ICE SHELF 3D CROSS SECTIONAL PROFILE IMAGING USING MIMO RADAR

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Applications

Time: Monday, July 25, 15:20 - 17:00

Authors: Arvind Hari Narayanan, Paul Brennan, Ralph Benjamin, Fabien Gillet-Chaulet, Keith Nicholls

View

ADD

Paper Code: TU3.T06.3

Paper Number: 2377

Title: ANALYSIS OF ELECTROMAGNETIC WAVE SCATTERING FROM A DIELECTRIC DIHEDRAL STRUCTURE BY POLARIMETRIC GB-SAR

Topic: Environmental Applications: Urban and Built Environment

Session: VHR Urban Remote Sensing

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Masayoshi Matsumoto, Motoyuki Sato

View

ADD

Paper Code: TUP.Y.6

Paper Number: 2379

Title: SYSTEM DESIGN OF FOCAL PLANE ARRAY BASED MILLIMETER-WAVE IMAGING RADIOMETER FOR CONCEALED WEAPON DETECTION

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Microwave Radiometry Missions and Instrument Performance I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Won-Gyum Kim, Nam-Won Moon, Yu-Shin Chang, Mun-Kyo Lee, Sang-Won Jung, Jun-Ho Choi, Jin-Mi Jung, Yong-Hoon Kim

View

ADD

Paper Code: WEP.G.4

Paper Number: 2380

Title: multi-targets imaging based on Keystone transform and STFT

Topic: Advances in Analysis Techniques (Theoretical): Others

Session: Advances in Analysis Techniques I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Lihua Zhong, Donghui Hu, Chibiao Ding, Yuxin Hu

ViewADD **Paper Code:** WEP.B.1**Paper Number:** 2381**Title:** COMPRESSIVE SENSING APPLIED TO IMAGING BY GROUND-BASED POLARIMETRIC SAR**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Riafeni Karlina, Motoyuki Sato**View**ADD **Paper Code:** TUP.B.1**Paper Number:** 2383**Title:** HIGH RESOLUTION SAR CHANGE DETECTION IN HONG KONG**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qinghua Li, Daniele Perissin, Qingli Luo, Hui Lin, Matthew Pang**View**ADD **Paper Code:** TU4.T08.4**Paper Number:** 2385**Title:** Linear unmixing of multirate hyperspectral imagery for crop yield estimation**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Bin Luo, Chenghai Yang, Jocelyn Chanussot**View**ADD **Paper Code:** MO3.T01.1**Paper Number:** 2386**Title:** A SHORT NOTE IN SELECTING A MICROWAVE SCATTERING OR EMISSION MODEL**Topic:** Invited Sessions: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Session:** Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Adrian K. Fung**View**ADD **Paper Code:** WEP.Q.3**Paper Number:** 2387**Title:** STUDY ON QUANTITATIVE RETRIEVAL OF SOIL NUTRIENTS**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Heng Dong, Chao Chen, Jinliang Wang, Qiming Qin, Hongbo Jiang, Ning Zhang, Mingchao Liu**View**ADD **Paper Code:** FR3.T07.5**Paper Number:** 2388**Title:** LOWER-TROPOSPHERIC TEMPERATURE CLIMATE DATA RECORD USING NOAA/NESDIS/STAR RECALIBRATED MSU/AMSU-A OBSERVATIONS**Topic:** Environmental Applications: Others**Session:** Environmental Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Wenhui Wang, Cheng-Zhi Zou**View**ADD **Paper Code:** TUP.K.3**Paper Number:** 2390**Title:** THE INTEGRATION OF SPECTRAL ANALYSES OF LANDSAT ETM+ WITH THE DEM DATA FOR MAPPING MANGROVE FORESTS.**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I

- Time:** Tuesday, July 26, 17:00 - 18:30
Authors: Bayan Alsaadeh, Ahmad Al-Hanbali, Ryutaro Tateishi, Hoan Nguyen Thanh
- View**
Paper Code: TU2.T03.3 **Paper Number:** 2391
Title: Retrieval of Soil Moisture and Vegetation Canopy Parameters With L-band Radar for a Range of Boreal Forests
Topic: Land: Soils and Soil Moisture
Session: Soil Moisture Remote Sensing II
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Alireza Tabatabaenejad, Mariko Burgin, Mahta Moghaddam
- ADD**
- View**
Paper Code: WEP.F.5 **Paper Number:** 2392
Title: RADARGRAMMETRIC DEM GENERATION USING ENVISAT SIMULATION IMAGE AND REPROCESSED IMAGE
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Jung Hum Yu, Xiaojing Li, Linlin Ge
- ADD**
- View**
Paper Code: MO3.T07.2 **Paper Number:** 2393
Title: SUBPIXEL CLASSIFICATION FOR FLOOD MAPPING
Topic: Invited Sessions: Superresolution and sub-pixel classification
Session: Superresolution and Sub-Pixel Classification
Time: Monday, July 25, 13:20 - 15:00
Authors: Chandrama Dey, Dr. Xiuping Jia
- ADD**
- View**
Paper Code: WE2.T07.3 **Paper Number:** 2397
Title: DEVELOPMENT OF A NEW BISTATIC DOPPLER MEASUREMENT SYSTEM AND ITS FIELD TEST IN OKINAWA
Topic: Atmosphere: Precipitation and Clouds
Session: Precipitation and Clouds II
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Seiji Kawamura, Shigeo Sugitani, Hiroshi Hanado, Katsuhiro Nakagawa
- ADD**
- View**
Paper Code: TUP.H.10 **Paper Number:** 2398
Title: TEMPERATURE AND EMISSIVITY SEPARATION FROM TASI DATA BASED ON WAVEBANDS SELECTION
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: Monitoring of the Environment and Retrieval of Physical Parameters
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Hang Yang, Lifu Zhang, Li Liu, Qingxi Tong
- ADD**
- View**
Paper Code: MOP.P.7 **Paper Number:** 2399
Title: EVALUATION OF MODIS GROSS PRIMARY PRODUCTIVITY OF TROPICAL OIL PALM IN SOUTHERN PENINSULAR MALAYSIA
Topic: Land: Forests and Vegetation
Session: Tropical Forests
Time: Monday, July 25, 17:00 - 18:30
Authors: Kian Pang Tan, Kasturi Devi Kanniah, Ibrahim Bin Busu, Arthur Philip Cracknell
- ADD**
- View**
Paper Code: MOP.G.3 **Paper Number:** 2400

ADD **Title:** ON THE OPTIMAL SPECKLE REDUCTION FOR TARGET DETECTION IN SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yi Cui, Jian Yang, Yoshio Yamaguchi

View

Paper Code: TUP.R.7**Paper Number:** 2402**Title:** A NEW ROLE FOR A NIC PRODUCT: THE MULTISENSOR ANALYZED SEA ICE EXTENT (MASIE)ADD **Topic:** Oceans: Sea Ice**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Pablo Clemente-Colón, Sean Helfrich, Michael Vancas, Florence Fetterer, Matt Savoie

View

Paper Code: MOPE.2**Paper Number:** 2403**Title:** A VISUALIZATION METHOD FOR SAR IMAGESADD **Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Applications**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Guangyi Zhou, Wentao An, Jian Yang, Hua Zhong

View

Paper Code: TH3.T09.4**Paper Number:** 2404**Title:** CAPTURING, HARMONIZING AND DELIVERING DATA AND QUALITY PROVENANCEADD **Topic:** Invited Sessions: Provenance in Geoscience Data**Session:** Provenance in Geoscience Data**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Gregory Leptoukh, Christopher Lynnes

View

Paper Code: TU3.T09.5**Paper Number:** 2405**Title:** EVALUATING TRANSFER LEARNING APPROACHES FOR IMAGE INFORMATION MINING APPLICATIONSADD **Topic:** Invited Sessions: Data Mining and Machine Learning for Remote Sensing**Session:** Data Mining and Machine Learning for Remote Sensing I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Surya Durbha, Roger King, Nicolas Younan

View

Paper Code: WEP.F.3**Paper Number:** 2410**Title:** THE TRANSPORT ANIMATION OF ASIAN DUST CLOUDS IN THE GOOGLE EARTHADD **Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Takashi Kusaka, Takafumi Kono, Wataru Okuda

View

Paper Code: FR3.T08.4**Paper Number:** 2411**Title:** A ROBUST SPECTRAL TARGET RECOGNITION METHOD FOR HYPERSPECTRAL DATA BASED ON COMBINED SPECTRAL SIGNATURESADD **Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in the Analysis of Hyperspectral Data**Time:** Friday, July 29, 13:20 - 15:00

ViewADD **Authors:** Xiao Fan, Ye Zhang, Feng Li, Yushi Chen, Tao Shao, Shuang Zhou**Paper Code:** WEP.A.4**Paper Number:** 2413**Title:** GPU-BASED PARALLEL BACK PROJECTION ALGORITHM FOR THE TRANSLATIONAL VARIANT BISAR IMAGING**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xin Zhang, Xiaoling Zhang, Jun Shi, Zhe Liu**View**ADD **Paper Code:** TUPE.1**Paper Number:** 2415**Title:** Comparison of two water vapor retrieval algorithms for HJ1A hyperspectral imagery**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hao Zhang, Zhengchao Chen, Bing Zhang, Dailiang Peng**View**ADD **Paper Code:** FR3.T07.1**Paper Number:** 2416**Title:** MONITORING NATURAL ANALOG OF GEOLOGIC CARBON SEQUESTRATION USING MULTI-TEMPORAL LANDSAT TM IMAGES IN MAMMOTH MOUNTAIN, LONG VALLEY CADERA, CALIFORNIA**Topic:** Environmental Applications: Others**Session:** Environmental Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Rattanasuda Cholathat, Xiaojing Li, Linlin Ge**View**ADD **Paper Code:** MOP.O.1**Paper Number:** 2417**Title:** RELATIONSHIP BETWEEN LAND COVER AND MICRO-CLIMATE AT WEATHER OBSERVATION POINT IN JAPAN**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change IV**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hikaru Ishiguro, Nanako Yoshinari, Naoki Takagi**View**ADD **Paper Code:** TU4.T10.3**Paper Number:** 2418**Title:** THE INTERNAL WAVE PARAMETERS RETRIEVED FROM SAR IMAGE WITH NUMERICAL SIMULATION**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Haibin Lü, Yijun He, Hui Shen, Guoqiang Liu**View**ADD **Paper Code:** WE3.T10.1**Paper Number:** 2420**Title:** AIRSWOT- A CALIBRATION/VALIDATION PLATFORM FOR THE SWOT MISSION**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Delwyn Moller, Ernesto Rodriguez, James Carswell, Daniel Esteban-Fernandez**View****Paper Code:** FR4.T09.3**Paper Number:** 2422

ADD **Title:** WELL LOG DATA INVERSION USING RADIAL BASIS FUNCTION NETWORK**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Advances in Analysis Techniques II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Kou-Yuan Huang, Liang-Chi Shen, Li-Sheng Weng

View

Paper Code: MOP.T.7**Paper Number:** 2427ADD **Title:** REDUCING ELECTROMAGNETIC COUPLING FOR BISTATIC SUBSURFACE PULSE RADAR USING EBG STRUCTURES**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems, Methods and Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tomoyuki Muto, Takuji Arima, Toru Uno

View

Paper Code: TU4.T04.4**Paper Number:** 2429ADD **Title:** THE AIRBORNE GLACIER AND ICE SURFACE TOPOGRAPHY INTERFEROMETER (GLISTIN-A)**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Airborne SAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Delwyn Moller, Scott Hensley, Thierry Michel

View

Paper Code: FR2.T09.5**Paper Number:** 2432ADD **Title:** CALDERA RIMS OF NORTHEAST HONSHU EXTRACTED FROM GRAVITY ANOMALIES AND AEROMAGNETIC DATA**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Oky Dicky Ardiansyah Prima, Takeyoshi Yoshida, Takeshi Kudo

View

Paper Code: MOP.Q.12**Paper Number:** 2433ADD **Title:** ESTIMATING VEGETATION WATER CONTENT DURING A GROWING SEASON OF COTTON**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tianjie Zhao, Lixin Zhang, Rajat Bindlish, Jiancheng Shi, Lingmei Jiang, Yunqing Li, Shaojie Zhao, Tao Zhang, Xinxin Li

View

Paper Code: MOP.C.8**Paper Number:** 2434ADD **Title:** BACK PROJECTION ALGORITHM FOR HIGH RESOLUTION GEO-SAR IMAGE FORMATION**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution and Multi-Channel SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Zhuo Li, Chunsheng Li, Ze Yu, Jian Zhou, Jie Chen

View

Paper Code: MOP.F.3**Paper Number:** 2437ADD **Title:** VALIDATION OF FOUR-COMPONENT DECOMPOSITION WITH ROTATED COHERENCY MATRIX OF TERRASAR-X**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR I

ViewADD **Time:** Monday, July 25, 17:00 - 18:30**Authors:** Toshifumi Hiramatsu, Takashi Nonaka, Takashi Shibayama**Paper Code:** WEP.B.5**Paper Number:** 2438**Title:** TERRAIN CHARACTERISATION OF HEARD, MCDONALD AND MACQUARIE ISLANDS USING MULTI-FREQUENCY INTERFEROMETRIC SYNTHETIC APERTURE RADAR (INSAR) DATA.**Topic:** Land: Land Ice and Snow**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Anthea Mitchell, Alex Hay-Man Ng, Jung Hum Yu, Linlin Ge**View**ADD **Paper Code:** WE1.T04.3**Paper Number:** 2440**Title:** THE KOMPSAT-5 IMAGE RECEPTION AND PROCESSING ELEMENT**Topic:** Invited Sessions: KOMPSAT-5 SAR**Session:** KOMPSAT-5 SAR**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Myungjin Choi, Taeyoung Kim, Hee-Jin Bae, Yunyook Jang, Tae-Byeong Chae, Yong-Sik Chun**View**ADD **Paper Code:** TU2.T04.4**Paper Number:** 2444**Title:** SCALE EFFECT OF VEGETATION INDEX BASED THERMAL SHARPENING: A SIMULATION STUDY BASED ON ASTER DATA**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Student Paper Contest II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xuehong Chen, Yasushi Yamaguchi, Jin Chen, Yusheng Shi**View**ADD **Paper Code:** MOP.B.6**Paper Number:** 2445**Title:** EM Scattering from a Corn Canopy at L and C Bands**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yang Du, Wenzhe Yan, Jiancheng Shi, Zeng-Yuan Li, Er-Xue Chen**View**ADD **Paper Code:** WE4.T06.2**Paper Number:** 2449**Title:** ASSESSING THE POTENTIAL OF GROUNDWATER RESOURCES WEST OF ASWAN, EGYPT, USING ALOS/PALSAR POLARIMETRIC INFORMATION**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth V**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Ahmed Gaber, Magaly Koch, Motoyuki Sato**View**ADD **Paper Code:** WE1.T08.2**Paper Number:** 2451**Title:** EMBEDDED FEATURE SELECTION OF HYPERSPECTRAL BANDS WITH BOOSTED DECISION TREES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Feature Extraction and Band Selection in Hyperspectral Imagery**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Sildomar Monteiro, Richard Murphy**View****Paper Code:** MO3.T01.4**Paper Number:** 2453**Title:** Some Extensions to the Integral Equation Method for Electromagnetic Scattering from Rough Surfaces

ADD

Topic: Invited Sessions: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung

Session: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung

Time: Monday, July 25, 13:20 - 15:00

Authors: Yang Du

View

ADD

Paper Code: TH1.T07.2

Paper Number: 2455

Title: CO2 AND CH4 CONCENTRATIONS IN THE MIDDLE AND UPPER TROPOSPHERE FROM GOSAT/TANSO-FTS TIR

Topic: Atmosphere: Atmospheric Sounding

Session: Satellite-Based Atmospheric Sounding and Imaging

Time: Thursday, July 28, 08:20 - 10:00

Authors: Naoko Saitoh, Ryoichi Imasu, Kei Shiomi, Yuko Nasu, Miwa Touno, Sachiko Hayashida

View

ADD

Paper Code: TU3.T05.1

Paper Number: 2456

Title: INTEROPERABILITY OF RADAR AND OPTICAL DATA FOR FOREST INFORMATION ASSESSMENT.

Topic: Land: Forests and Vegetation

Session: SAR/Lidar Sensing II

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Anthea Mitchell, Anthony Milne, Ian Tapley, Kim Lowell, Peter Caccetta, Eric Lehmann, Zheng-Shu Zhou, Alex Held

View

ADD

Paper Code: TUP.A.8

Paper Number: 2457

Title: SUBSIDENCE ANALYSIS IN TIANJIN BASED ON PSI TECHNIQUE USING PALSAR FBD DATA

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: InSAR I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Yixian Tang, Chao Wang, Hong Zhang, Li Tao

View

ADD

Paper Code: TUP.M.4

Paper Number: 2458

Title: Continuous monitoring of the ground surface change in Sakurajima Volcano using RADARSAT-2 Data

Topic: Land: Natural Disaster / Land Slide

Session: Remote Sensing of Land Deformation and Floods

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Masayuki Sakagami, Hisashi Sasaki, Takumi Sato, Akiko Kasuga, Hirokazu Muraki, Koichi Iribe

View

ADD

Paper Code: FR2.T03.2

Paper Number: 2461

Title: RETRIEVAL OF ATMOSPHERIC BOUNDARY LAYER HEIGHT BY CSIR-NLC MOBILE LIDAR, PRETORIA (25.5° S; 28.2° E), SOUTH AFRICA

Topic: Sensors and Platforms: Lidar Sensors

Session: Lidar Sensors III

Time: Friday, July 29, 10:20 - 12:00

Authors: Sivakumar Venkataraman, Ameeth Sharma, Christoph Bollig

View

ADD

Paper Code: TUP.N.6

Paper Number: 2462

Title: Remote Sensing of Sea Surface Crude Oil Spill from Landsat Thermal Infrared Imagery

Topic: Oceans: Ocean Temperature and Salinity

Session: Ocean Biology (Color) and Water Quality II

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Qianguo Xing, Li Li, Shouzhen Liang, Dingfeng Yu, Ping Shi, Chuqun Chen

View

ADD

Paper Code: MOP.G.7

Paper Number: 2463

Title: WISHART SUPERVISED CLASSIFICATION RESULTS OF C-BAND POLARIMETRIC GB-SAR IMAGE DATA

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Moon-Kyung Kang, Kwang-Eun Kim, Seong-Jun Cho, Hoonyol Lee, Jae-Hee Lee

View

ADD

Paper Code: WE1.T10.5

Paper Number: 2465

Title: SEA SURFACE SALINITY AND WIND RETRIEVAL ALGORITHM USING COMBINED PASSIVE-ACTIVE L-BAND MICROWAVE DATA

Topic: Oceans: Ocean Temperature and Salinity

Session: Ocean Salinity

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Simon H. Yueh, Mario Chaubell

View

ADD

Paper Code: WEP.J.3

Paper Number: 2469

Title: COMPARISON OF MICROWAVE EMISSION MODEL FOR FROZEN SOIL AND FIELD OBSERVATION

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Passive Microwave

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Zhenguo Hao, Shaojie Zhao, Lixin Zhang, Lingmei Jiang, Lijiao Xiao

View

ADD

Paper Code: TUP.F.8

Paper Number: 2472

Title: COUPLED NON-NEGATIVE MATRIX FACTORIZATION (CNMF) FOR HYPERSPECTRAL AND MULTISPECTRAL DATA FUSION: APPLICATION TO PASTURE CLASSIFICATION

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Methods and Efficient Implementations in Hyperspectral Imagery

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Naoto Yokoya, Takehisa Yairi, Akira Iwasaki

View

ADD

Paper Code: TUP.G.4

Paper Number: 2473

Title: EXTRACTION OF OBJECT FEATURES FROM HIGH RESOLUTION SAR IMAGES BASED ON SURF FEATURES

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Information Extraction from RADAR and SAR Data

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Xiaonjuan Tian, Chao Wang, Hong Zhang

View

ADD

Paper Code: WEPL.1

Paper Number: 2474

Title: EXPANSION OF MORaine-DAMMED GLACIAL LAKE IN THE CENTRAL HIMALAYAS FROM 1977 TO 2009

Topic: Land: Land Ice and Snow

Session: Active Microwave and Optical Remote Sensing of Snow and Ice

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Lizong Wu, Xin Li, P K Mool, Sharad Joshi, Shiyin Liu

ViewADD **Paper Code:** FR2.T06.2**Paper Number:** 2476**Title:** AN IMPROVED ALGORITHM OF WILDFIRE DETECTION AND A METHOD OF WILDFIRE OBSERVATION FOR VALIDATION**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing for Natural Disasters Monitoring and Management**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Koji Nakau, Masami Fukuda, Hiroki Eto**View**ADD **Paper Code:** TUP.T.4**Paper Number:** 2478**Title:** Topographic mapping of tidal flats using X-band SAR waterlines**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yoon-Kyung Lee, Jeong-Won Park, Joong-Sun Won**View**ADD **Paper Code:** TU2.T03.1**Paper Number:** 2481**Title:** IMPROVING LAND SURFACE ENERGY AND WATER FLUXES SIMULATION OVER THE TIBETAN PLATEAU WITH USING A LAND DATA ASSIMILATION SYSTEM**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Hui Lu, Toshio Koike, Kun Yang, Xin Li, Hiroyuki Tsutsui, Katsunori Tamagawa, Xiangde Xu**View**ADD **Paper Code:** TUP.B.6**Paper Number:** 2483**Title:** ATMOSPHERIC DELAY ANALYSIS FROM GPS AND INSAR**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shilai Cheng, Daniele Perissin, Fulong Chen, Hui Lin**View**ADD **Paper Code:** MOPI.1**Paper Number:** 2484**Title:** VERY FAST SIMULATED ANNEALING FOR PATTERN DETECTION AND SEISMIC APPLICATIONS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Kou-Yuan Huang, Yueh-Hsun Hsieh**View**ADD **Paper Code:** TUP.A.5**Paper Number:** 2485**Title:** DYNAMIC DEFORMATION RETRIEVAL FOR INSAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Li Tao, Chao Wang, Hong Zhang, Yixian Tang, Fan Wu**View**ADD **Paper Code:** WEP.X.4**Paper Number:** 2491**Title:** EFFECT OF SPACEBORNE SAR RAW DATA DIGITAL PROCESSING ON DISTRIBUTED TARGETS CLASSIFICATION**Topic:** Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions**Session:** Data Management, Dissemination, Education and Policy

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xin Li, Haiming Qi, Hong Lei, Weidong Yu**Paper Code:** TH4.T10.1**Paper Number:** 2495**Title:** SENSOR WEB TECHNOLOGY CHALLENGES AND ADVANCEMENTS FOR THE EARTH SCIENCE DECADEAL SURVEY ERA**Topic:** Invited Sessions: Earth Observation Sensor Web**Session:** Earth Observation Sensor Web**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Charles Norton, Karen Moe**View**ADD **Paper Code:** TUP.C.11**Paper Number:** 2497**Title:** APPLICATION OF RPC MODEL FOR INSAR PHASE EVALUATION**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wen-Bo Fei, Guo Zhang, Zhen Li**View**ADD **Paper Code:** WEP.A.3**Paper Number:** 2498**Title:** AN EXPERIMENTAL STUDY ON ENHANCEMENT OF THE CROSS-RANGE RESOLUTION OF ISAR IMAGING USING ISDB-T DIGITAL TV BASED PASSIVE BISTATIC RADAR**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Shohei Nakamura, Kei Suwa, Shinichi Morita, Kazuhiko Yamamoto, Toshio Wakayama, Tadashi Oshima, Ryoji Maekawa, Shoji Matsuda**View**ADD **Paper Code:** WEP.Q.4**Paper Number:** 2499**Title:** MULTI-MODEL SIMULATIONS AND SATELLITE OBSERVATIONS FOR AGRICULTURE AND ECOSYSTEMS CLIMATE CHANGE IMPACTS**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Menas Kafatos, Ghassem Asrar, Hesham El-Askary, Jinwon Kim, Woo-Kyun Lee, Seon K. Park, Anup Prasad, Craig Tremback, Robert Walko**View**ADD **Paper Code:** TU3.T08.5**Paper Number:** 2501**Title:** DYNAMIC SUBSPACE ENSEMBLE FOR REMOTELY SENSED HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Optical Image Processing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Jinn-Min Yang**View**ADD **Paper Code:** WE3.T10.2**Paper Number:** 2505**Title:** KA-BAND SAR INTERFEROMETRY STUDIES FOR THE SWOT MISSION**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Daniel Esteban-Fernandez, Lee-Lueng Fu, Ernesto Rodriguez, Eva Peral, Shannon Brown, Richard Hodges

[View](#)ADD **Paper Code:** FR3.T05.2**Paper Number:** 2508**Title:** CLEAR SKY NET SURFACE RADIATIVE FLUXES OVER RUGGED TERRAIN FROM SATELLITE MEASUREMENTS**Topic:** Land: Others**Session:** Land Applications II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Tianxing Wang, Guangjian Yan, Xihan Mu, Ling Chen[View](#)ADD **Paper Code:** TUP.R.8**Paper Number:** 2512**Title:** DISTINCTIVE CHARACTERISTICS OF GLACIAL ICE IN THE PR-GR SCATTER PLOTS OF AMSR-E NASA TEAM2 SEA ICE ALGORITHM**Topic:** Oceans: Sea Ice**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hyangsun Han, Hoonyol Lee[View](#)ADD **Paper Code:** TUP.B.8**Paper Number:** 2513**Title:** METHODS OF INSAR ATMOSPHERE CORRECTION FOR VOLCANO ACTIVITY MONITORING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenyu Gong, Franz Meyer, Peter Webley, Zhong Lu[View](#)ADD **Paper Code:** MOP.I.6**Paper Number:** 2514**Title:** IMAGE SHARPENING USING HYPERSPECTRAL AND MULTISPECTRAL DATA**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Norimasa Mayumi, Akira Iwasaki[View](#)ADD **Paper Code:** MOP.M.7**Paper Number:** 2515**Title:** Re-imaging of SAR Image via the Underlying Information**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xin Lu, Mengling Liu, Yongmin Shuai, Rong Chen, Hui Yin, Hong Sun[View](#)ADD **Paper Code:** MO3.T07.4**Paper Number:** 2516**Title:** LANDSCAPE STRUCTURE BASED SUPER-RESOLUTION MAPPING FROM REMOTELY SENSED IMAGERY**Topic:** Invited Sessions: Superresolution and sub-pixel classification**Session:** Superresolution and Sub-Pixel Classification**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Haobo Lin, Yanchen Bo, Jindi Wang, Xiuping Jia[View](#)ADD **Paper Code:** MOP.H.5**Paper Number:** 2517**Title:** Comparison of different methods to merge panchromatic and multispectral data of Komsat-2**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing II

- View**
ADD
- Time:** Monday, July 25, 17:00 - 18:30
Authors: Kwan-Young Oh, Hyung-Sup Jung, Kwang-Jae Lee
- Paper Code:** WE3.T04.4 **Paper Number:** 2521
Title: SYNTHETIC APERTURE RADIOMETER MEASUREMENTS OF FREEZING SOIL
Topic: Land: Soils and Soil Moisture
Session: Freeze-Thaw and Soil Moisture
Time: Wednesday, July 27, 13:20 - 15:00
Authors: Jaakko Seppänen, Juha Kainulainen, Martti Hallikainen, Juha Lemmetyinen, Kimmo Rautiainen
- View**
ADD
- Paper Code:** TUP.F.2 **Paper Number:** 2522
Title: IMPLEMENTATION OF A COVARIANCE-BASED PRINCIPAL COMPONENT ANALYSIS ALGORITHM WITH A CUDA-ENABLED GRAPHICS PROCESSING UNIT
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Methods and Efficient Implementations in Hyperspectral Imagery
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Jian Zhang, Kim Hwa Lim
- View**
ADD
- Paper Code:** WEP.F.7 **Paper Number:** 2523
Title: RESOLUTION ENHANCEMENT OF ASTER DIGITAL ELEVATION MODEL
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Dai Okano, Akira Iwasaki
- View**
ADD
- Paper Code:** TU1.T05.1 **Paper Number:** 2527
Title: A Polarimetric Temporal Scene Parameter and Its Application to Change Detection
Topic: Land: Land Use and Land Cover Change
Session: Land Use and Land Cover Change V
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Esra Erten, Olga Chesnokova, Cristian Rossi, Irena Hajnsek
- View**
ADD
- Paper Code:** MOP.H.7 **Paper Number:** 2528
Title: GRAPH-BASED SHIP EXTRACTION SCHEME FOR OPTICAL SATELLITE IMAGE
Topic: Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing
Session: High Resolution Optical Sensing II
Time: Monday, July 25, 17:00 - 18:30
Authors: Feng Chen, Wenxian Yu, Xingzhao Liu, Kaizhi Wang, Lin Gong, Wentao Lv
- View**
ADD
- Paper Code:** WEP.Q.5 **Paper Number:** 2530
Title: DEVELOPMENT OF RICE PHOTOSYNTHESIS MODEL FOR MONITORING YIELDS AND CARBON SEQUESTRATION USING MULTI-SATELLITE DATA
Topic: Environmental Applications: Agroecosystems
Session: Agroecosystems I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Daijiro Kaneko, Peng Yang, Toshiro Kumakura

ViewADD **Paper Code:** MOP.A.7**Paper Number:** 2532**Title:** A COMPARISON OF FOUR-STREAM APPROXIMATIONS FOR THE RADIATIVE FLUX CALCULATIONS**Topic:** Atmosphere: Others**Session:** Electromagnetic Modeling and Data Analysis**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Weizhen Hou, Qiu Yin**View**ADD **Paper Code:** TUP.S.6**Paper Number:** 2534**Title:** QUANTITATIVE DAMAGE ASSESSMENT OF CONCRETE STRUCTURES BASED ON 3D LASER SCANNING**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Tomohiro Mizoguchi, Yasuhiro Koda, Yoshikazu Kobayashi, Ichiro Iwaki, Yasuhiko Hara, Kenji Shirai, Hwa-Soo Lee, Hiroyuki Wakabayashi**View**ADD **Paper Code:** TH2.T09.5**Paper Number:** 2535**Title:** Kernel Entropy Component Analysis in Remote Sensing Data Clustering**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Luis Gómez-Chova, Robert Jenssen, Gustavo Camps-Valls**View**ADD **Paper Code:** WEP.H.5**Paper Number:** 2536**Title:** A METHOD FOR LEAF GAP FRACTION ESTIMATION BASED ON MULTISPECTRAL DIGITAL IMAGES FROM MULTISPECTRAL CANOPY IMAGER**Topic:** Land: Forests and Vegetation**Session:** Advances in Earth Sensing and Applications II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yaokai Liu, Ronghai Hu, Xihan Mu, Guangjian Yan**View**ADD **Paper Code:** TH3.T06.1**Paper Number:** 2538**Title:** OYSTER REEF SIGNATURE IN TIDAL FLATS DETECTED BY MULTI-FREQUENCY POLARIMETRIC SAR DATA**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Byung-Hun Choe, Duk-Jin Kim, Ji-Hwan Hwang, Yisok Oh, Wooil M Moon**View**ADD **Paper Code:** WE2.T09.5**Paper Number:** 2539**Title:** SAR IMAGE BASED GEOMETRICAL FEATURE EXTRACTION OF SHIPS**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** DEM and Feature Extraction**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Chongwen Duan, Weidong Hu, Xiaoyong Du**View**ADD **Paper Code:** MOP.I.10**Paper Number:** 2541**Title:** Kernel Image Similarity Criterion**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Vicent Talens, Jose Moreno, Gustavo Camps-Valls

ViewADD **Paper Code:** TUP.F.3**Paper Number:** 2542**Title:** A FAST-ADAPTIVE SUPPORT VECTOR METHOD FOR FULL-PIXEL ANOMALY DETECTION IN HYPERSPECTRAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Methods and Efficient Implementations in Hyperspectral Imagery**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Safa Khazai, Abdolreza Safari, Barat Mojaradi, Saeid Homayouni**View**ADD **Paper Code:** WEP.Q.6**Paper Number:** 2543**Title:** EVALUATION OF WHEAT GROWTH MONITORING METHODS BASED ON HYPERSPECTRAL DATA IN WESTERN AUSTRALIA**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yasuteru Imai, Taichi Morita, Yukio Akamatsu, Shinya Odagawa, Tomomi Takeda, Osamu Kashimura**View**ADD **Paper Code:** TUP.L.4**Paper Number:** 2545**Title:** ASSESSMENT OF BOREAL FOREST BIOMASS USING L-BAND RADIOMETER SMOS DATA**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ning Zhang, Jiancheng Shi, Guoqing Sun, Zhifeng Guo, Linna Chai**View**ADD **Paper Code:** TUPE.7**Paper Number:** 2548**Title:** HYPERSPECTRAL MAPPING FOR ROCK AND ALTERATION MINERAL WITH SPECTRAL ANGLE MAPPING AND NEURAL NETWORK CLASSIFICATION METHOD: STUDY CASE IN WARMBAD DISTRICT, SOUTH OF NAMIBIA**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Dr. Yessy Arvelyna, Shuichi Miyatake, Atsushi Momose, Anna Nguno, Kombadayedu Mhopjeni, Aphary Muyongo, Minsozi Sibeso, Ewereth Muvangua**View**ADD **Paper Code:** FR2.T04.3**Paper Number:** 2549**Title:** OVERVIEW of GCOM**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments II**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Haruhisa Shimoda**View**ADD **Paper Code:** FR1.T09.5**Paper Number:** 2550**Title:** FEATURE ANALYSIS OF GROUNDWATER DISCHARGE POINTS IN COASTAL REGIONS AROUND MT. CHOKAISAN, JAPAN BY USING ALOS PALSAR DATA**Topic:** Oceans: Ocean Biology (Color) and Water Quality**Session:** GIS and Agro-Geoinformatics Applications**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Yoichi Kageyama, Hikaru Shirai, Makoto Nishida**View**ADD **Paper Code:** WE1.T05.4**Paper Number:** 2552**Title:** GENERATING FINE RESOLUTION LEAF AREA INDEX MAPS FOR BOREAL FORESTS OF FINLAND**Topic:** Land: Forests and Vegetation

Session: Modeling Approaches**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Janne Heiskanen, Miina Rautiainen, Lauri Korhonen, Matti Möttö, Pauline Stenberg**View****ADD** **Paper Code:** WEP.D.2**Paper Number:** 2555**Title:** ESTIMATION OF HEIHE REGION SURFACE ALBEDO BASED ON A PRIORI KNOWLEDGE BY USING HJ1-A SATELLITE IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hu Zhang, Ziti Jiao, Xiaowen Li, Xingying Huang**View****ADD** **Paper Code:** TH2.T08.3**Paper Number:** 2556**Title:** Information Extraction from Single Look Complex SAR images**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Dušan Gleich, Žarko Čučej**View****ADD** **Paper Code:** WEP.V.1**Paper Number:** 2558**Title:** THE STUDY ON APPLICATIONS OF LARGE APERTURE SCINTILLOMETER MEASURING LARGE SCALE FLUX**Topic:** Sensors and Platforms: Gound Based System**Session:** Ground Based System - Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Weizhen Wang, Ziwei Xu, Xin Li, Jiemin Wang, Zhihui Zhang**View****ADD** **Paper Code:** MOP.V.7**Paper Number:** 2559**Title:** STUDY OF PALSAR RADIOMETRIC STABILITY WITH PASSIVE CALIBRATION TARGETS**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Alexander Zakharov, Masanobu Shimada, Mark Sorochinsky, Peter Zherdev, Alexey Sokolov**View****ADD** **Paper Code:** WE4.T10.2**Paper Number:** 2562**Title:** A NEW MODEL FOR PEAKY ALTIMETRIC WAVEFORMS**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Abderrahim Halimi, Corinne Mailhes, Jean-Yves Tournet, Pierre Thibaut**View****ADD** **Paper Code:** MOP.V.8**Paper Number:** 2566**Title:** RESEARCH ON THE METHODS OF INNER CALIBRATION OF SPACEBORNE SAR**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yong-Hua Jiang, Guo Zhang**View****Paper Code:** TU4.T10.1**Paper Number:** 2567

ADD **Title:** APPLICATION OF SAR-DERIVED SEA SURFACE WIND AND ERROR CHARACTERISTICS DUE TO AIR-SEA INTERACTION**Topic:** Invited Sessions: SAR applications in oceanography: from research to operation**Session:** SAR Applications in Oceanography: From Research to Operation II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Kyung-Ae Park, Tae-Sung Kim

View

Paper Code: FR4.T06.1**Paper Number:** 2568ADD **Title:** TEMPORAL ANALYSIS OF LAND DEFORMATION ON ERUPTED MUD VOLCANO IN SIDOARJO, INDONESIA USING DINSAR TECHNIQUE**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Luhur Bayuaji, Josaphat Tetuko Sri Sumantyo, Hiroaki Kuze

View

Paper Code: TU2.T09.3**Paper Number:** 2570ADD **Title:** COMBINATIONAL MATCHING METHOD OF AMPLITUDE-SCALE AND TIME-SHIFT FOR RADAR HRRP RECOGNITION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Target Detection**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Feng Chen, Wenxian Yu, Xingzhao Liu, Kaizhi Wang

View

Paper Code: TU3.T05.2**Paper Number:** 2573ADD **Title:** Multitemporal observations of sugarcane by TerraSAR-X sensor**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Nicolas Baghdadi, Pierre Todoroff, Mehrez Zribi

View

Paper Code: TUP.W.5**Paper Number:** 2575ADD **Title:** APPLICATION OF SATELLITE IMAGERY FOR GEOLOGICAL MAPPING IN KABOMPO DOME AREA, ZAMBIA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Alphet Dokowe, Ezekiah Chikambwe, Yuu Kawakami, Shuichi Miyatake

View

Paper Code: FR1.T01.1**Paper Number:** 2576ADD **Title:** An analysis of Coherence Optimization Methods in Compact Polarimetric SAR Interferometry**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLINSAR**Session:** POLINSAR**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Meng Liu, Hong Zhang, Chao Wang, Bo Zhang

View

Paper Code: FR2.T09.2**Paper Number:** 2577ADD **Title:** DEVELOPMENT AND APPLICATION OF FIELD SURVEY ASSISTING SYSTEM**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques III**Time:** Friday, July 29, 10:20 - 12:00

ViewADD **Authors:** Yu Nakayama, Kazuhiko Nakamura, Hitoshi Saito, Rui Fukumoto**Paper Code:** FR3.T06.4**Paper Number:** 2578**Title:** DETECTION METHOD OF SLOPE FAILURES DUE TO THE 2009 SUMATRA EARTHQUAKE BY USING TERRASAR-X IMAGES**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters I**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Makoto Kawamura, Kazuhiko Tsujino, Yuji Tsujiko, Jafri Tanjung**View**ADD **Paper Code:** WE2.T10.3**Paper Number:** 2579**Title:** SWOT MISSION GROUND SEGMENT: DATA PROCESSING FUNCTIONAL ARCHITECTURE AND PROCESSING APPROACHES**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission I**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** H el ene Vadon, Philip S. Callahan**View**ADD **Paper Code:** WEP.G.5**Paper Number:** 2580**Title:** AIRBORNE 3-D FORWARD LOOKING SAR IMAGING VIA CHIRP SCALING ALGORITHM**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Gao Xiang, Xiaoling Zhang, Jun Shi**View**ADD **Paper Code:** WEP.H.6**Paper Number:** 2581**Title:** SHRUB BIOMASS ESTIMATION IN MU US SANDLAND USING SIMPLE GO MODEL AND MULTI-ANGLE OBSERVATIONS**Topic:** Land: Forests and Vegetation**Session:** Advances in Earth Sensing and Applications II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jian Zhao, Chunxiang Cao, Hao Zhang, Sheng Zheng, Huicong Jia, Wei Ji, Mengxu Gao, Min Xu, Xiliang Ni, Wei Chen, Rong Tian, Cheng Liu, Xiaowen Li**View**ADD **Paper Code:** TUP.X.10**Paper Number:** 2582**Title:** ONE YEAR OF RFI DETECTION AND QUANTIFICATION WITH L1A SIGNALS PROVIDED BY SMOS REFERENCE RADIOMETERS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Eric Anterrieu, Ali Khazaal**View**ADD **Paper Code:** TUP.N.1**Paper Number:** 2583**Title:** Influence of coastal upwelling on Chlorophyll a concentration distributions in the northeastern South China Sea**Topic:** Oceans: Ocean Biology (Color) and Water Quality**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Zhongfeng Qiu, Yijun He, Yuanzhi Zhang**View****Paper Code:** TUP.O.11**Paper Number:** 2585**Title:** OCEAN SURFACE CURRENT IN TROPICAL CYCLONES EXTRACTED FROM RADARSAT-1 SCANSAR RAW DATA

ADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ki-Mook Kang, Duk-Jin Kim

View

Paper Code: TUP.W.4**Paper Number:** 2586**Title:** MAPPING MAFIC AND ULTRAMAFIC UNITS USING REMOTE SENSING DATA IN NORTH EAST BOTSWANAADD **Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Taro Yajima, Kewame Gwandu, Martin Sigweni

View

Paper Code: TUP.I.8**Paper Number:** 2587**Title:** A NEW METHOD OF ROAD NETWORK UPDATING BASED ON FLOATING CAR DATAADD **Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Urban Areas, Buildings and Roads**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yue Zhao, Jian Liu, Runqiang Chen, Jun Li, Chao Xie, Wenjiang Niu, Danyang Geng, Qiming Qin

View

Paper Code: TU1.T08.3**Paper Number:** 2590**Title:** AN OPTIMIZATION PERSPECTIVE ON WINTER'S ENDMEMBER EXTRACTION BELIEFADD **Topic:** Invited Sessions: Spectral Unmixing of Hyperspectral Data**Session:** Spectral Unmixing of Hyperspectral Data I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Tsung-Han Chan, Wing-Kin Ma, ArulMurugan Ambikapathi, Chong-Yung Chi

View

Paper Code: FR3.T09.1**Paper Number:** 2591**Title:** HIGH RESOLUTION DSM GENERATION FROM ALOS PRISM - ARCHIVING AND MOSAICKING -ADD **Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques IV**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Junichi Takaku, Takeo Tadono

View

Paper Code: WE4.T09.4**Paper Number:** 2592**Title:** Kernel-based Retrieval of Atmospheric Profiles from IASI DataADD **Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Parameter Estimation**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Gustavo Camps-Valls, Valero Laparra, Jordi Muñoz-Marí, Luis Gómez-Chova, Xavier Calbet

View

Paper Code: TUP.K.7**Paper Number:** 2593**Title:** THE RELATIONSHIP BETWEEN CANOPY PARAMETERS AND SPECTRUM OF WINTER WHEAT UNDER DIFFERENT IRRIGATIONS IN HEBEI PROVINCEADD **Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I**Time:** Tuesday, July 26, 17:00 - 18:30

ViewADD **Authors:** Peijuan Wang, Jiahua Zhang, Donghui Xie, Yanyan Xu, Yun Xu**Paper Code:** WEP.V.5**Paper Number:** 2595**Title:** DEVELOPMENT OF SYNTHETIC GPM/DPR DATA USING KAPR SAMPLING EXPERIMENT OF THE TRMM/PR**Topic:** Atmosphere: Precipitation and Clouds**Session:** Ground Based System - Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Takuji Kubota, Naofumi Yoshida, Shuji Shimizu, Riko Oki, Hiroshi Hanado, Toshio Iguchi**View**ADD **Paper Code:** FR1.T01.4**Paper Number:** 2597**Title:** EVALUATION OF SUPERVISED LAND-COVER CLASSIFICATION BY PALSAR POLARIMETRIC INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLINSAR**Session:** POLINSAR**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Masato Ohki, Masanobu Shimada**View**ADD **Paper Code:** TUP.W.3**Paper Number:** 2604**Title:** MAPPING PEGMATITE USING HYMAP DATA IN SOUTHERN NAMIBIA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Atsushi Momose, Shuichi Miyatake, Dr. Yessy Arvelyna, Anna Nguno, Kombada Mhopjeni, Minsozi Sibeso, Aphary Muyongo, Ewereth Muvangua**View**ADD **Paper Code:** FR3.T06.2**Paper Number:** 2605**Title:** PERSISTENT SCATTERER SAR INTERFEROMETRY APPLICATION ON BERKELEY HILLS LANDSLIDES**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters I**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Ling Lei, Yinqing Zhou, Jingwen Li, Roland Burgmann**View**ADD **Paper Code:** WEP.N.3**Paper Number:** 2607**Title:** DEVELOPMENT OF THE ICE CRYSTAL SCATTERING DATABASE FOR GCOM-C/SGLI**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Husi Letu, Takashi Y. Nakajima, Takashi Y. Matsui**View**ADD **Paper Code:** TH4.T08.3**Paper Number:** 2610**Title:** MAHALANOBIS KERNEL BASED ON PROBABILISTIC PRINCIPAL COMPONENT**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Machine Learning for the Classification of Hyperspectral Data**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Mathieu Fauvel, Alberto Villa, Jocelyn Chanussot, Jon Atli Benediktsson**View**ADD **Paper Code:** MOP.V.2**Paper Number:** 2614**Title:** RADIOMETRIC AND POLARIMETRIC CALIBRATION FOR PALSAR DATA BETA DERIVED FROM GEO GRID**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration

Session: SAR Missions and Instruments I

Time: Monday, July 25, 17:00 - 18:30

Authors: Kazuki Nakamura, Yuko Takeyama, Shinsuke Kodama, Masashi Matsuoka

View

ADD

Paper Code: MOP.J.3

Paper Number: 2617

Title: RPC GENERATIONS ON ALOS PRISM AND AVNIR-2

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis II

Time: Monday, July 25, 17:00 - 18:30

Authors: Junichi Takaku, Takeo Tadono

View

ADD

Paper Code: TUP.S.2

Paper Number: 2621

Title: MONITORING THE ELECTRIC POWER CONSUMPTION BY LIGHTING FROM DMS/OLS NIGHTTIME SATELLITE IMAGERY

Topic: Environmental Applications: Urban and Built Environment

Session: Urban Remote Sensing

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Husi Letu, Gegen Tana, Hara Masanao, Fumihiko Nishio

View

ADD

Paper Code: TU1.T09.3

Paper Number: 2627

Title: A HIERARCHICAL MARKOV RANDOM FIELD FOR ROAD NETWORK EXTRACTION AND ITS APPLICATION WITH OPTICAL AND SAR DATA

Topic: Invited Sessions: Data Fusion

Session: Data Fusion

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Talita Perciano, Florence Tupin, Roberto Hirata Jr., Roberto M. Cesar Jr.

View

ADD

Paper Code: TH3.T06.4

Paper Number: 2628

Title: WETLANDS MAPPING IN NORTH AMERICA USING MODIS 500M IMAGERY

Topic: Land: Wetlands and Inland Waters

Session: Wetlands and Inland Waters II

Time: Thursday, July 28, 13:20 - 15:00

Authors: Gegen Tana, Tateishi Ryutarou

View

ADD

Paper Code: TUP.O.5

Paper Number: 2629

Title: Surface Wind Speed retrieval from SAR imagery and its contribution to typhoon track forecasting in West Pacific Ocean

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents III

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Hui Shen, William Perrie, Yijun He

View

ADD

Paper Code: MOP.G.8

Paper Number: 2631

Title: A MODEL INCORPORATING ORIENTATION ANGLE SHIFT EFFECT FOR POLARIMETRIC SAR CALIBRATION

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Shiqi Xing, Canbin Hu, Zhenhai Xu, Dejun Feng, Dahai Dai

View

Paper Code: WE1.T09.2

Paper Number: 2632

Title: LOCAL FEATURE BASED SUPERVISED OBJECT DETECTION: SAMPLING, LEARNING AND DETECTION STRATEGIES

ADD **Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Building Detection and Object Recognition**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Julien Michel, Manuel Grizonnet, Jordi Inglada, Julien Malik, Aurélien Bricier, Otmane Lahlou

View

ADD **Paper Code:** TUP.I.2**Paper Number:** 2633**Title:** MAPPING URBAN AREAS BY PERFORMING SYSTEMATIC CORRECTION FOR DMSP/OLS NIGHTTIME LIGHTS TIME SERIES IN CHINA FROM 1992 TO 2008**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Urban Areas, Buildings and Roads**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Zhifeng Liu, Chunyang He, Yang Yang

View

ADD **Paper Code:** TH1.T04.3**Paper Number:** 2636**Title:** SPATIAL VARIATIONS OF L-BAND EMISSIVITY in Antarctica, FIRST RESULTS FROM THE SMOS MISSION**Topic:** Land: Land Ice and Snow**Session:** Active/Passive Microwave Remote Sensing of Terrestrial Snow II**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Ghislain Picard, Yann H. Kerr, Giovanni Macelloni, Nicolas Champollion, Michel Fily, François Cabot, Philippe Richaume, Marco Brogioni

View

ADD **Paper Code:** FR3.T10.3**Paper Number:** 2638**Title:** GEO-LOCATION ERROR CORRECTION FOR SYNTHETIC APERTURE RADAR IMAGE USING THE GROUND CONTROL POINT**Topic:** Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions**Session:** Remote Sensing Data and Policy Decisions**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Soo H. Rho, Jung Kim, Young K. Kwag

View

ADD **Paper Code:** TUP.J.3**Paper Number:** 2640**Title:** INTEGRATION OF SAR DATA AND AIS REPORT FOR SHIP DETECTION AND IDENTIFICATION**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Sudhir Kumar Chaturvedi, Chan-Su Yang, Jung-Hawn Song, Shanmugam Palanisamy

View

ADD **Paper Code:** TUP.J.8**Paper Number:** 2644**Title:** WEB-BASED FLOOD MONITORING SYSTEM USING GOOGLE EARTH AND 3D GIS**Topic:** Sensors and Platforms: Others**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yili Chan, Masatoshi Mori

View

ADD **Paper Code:** MOP.M.8**Paper Number:** 2646**Title:** DATA INTERPOLATION AND RESAMPLING FOR A SYNTHETIC APERTURE RADAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis I

ViewADD **Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shunichi Kusano, Motoyuki Sato, Yuya Yokota**Paper Code:** WEP.D.3**Paper Number:** 2647**Title:** INFLUENCE OF ENDMEMBER SPECTRA ON SCALING EFFECT OF VEGETATION COVER ESTIMATION WITH NDVI**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Kenta Obata, Hiroki Yoshioka**View**ADD **Paper Code:** FR4.T08.3**Paper Number:** 2649**Title:** A SHADOW DETECTION METHOD FOR REMOTE SENSING IMAGES USING VHR HYPERSPECTRAL AND LIDAR DATA**Topic:** Invited Sessions: Hyperspectral Detection of Difficult Targets**Session:** Hyperspectral Detection of Difficult Targets**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Gustav Tolt, Michal Shimoni, Jörgen Ahlberg**View**ADD **Paper Code:** WE4.T05.1**Paper Number:** 2653**Title:** MONITORING AND RETRIEVING RICE PHENOLOGY BY MEANS OF SATELLITE SAR POLARIMETRY AT X-BAND**Topic:** Land: Forests and Vegetation**Session:** Agricultural Applications**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Juan M. Lopez-Sanchez, Shane R. Cloude, J. David Ballester-Berman**View**ADD **Paper Code:** WEP.D.4**Paper Number:** 2655**Title:** SUPPORT SYSTEM TO EXTRACT TIE POINTS IN AIRBORNE IMAGES OF SNOW COVERED AREA USING ROOTS OF SINGLE TREES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yu Oishi, Tsuneo Matsunaga**View**ADD **Paper Code:** MOP.V.6**Paper Number:** 2656**Title:** DEVELOPMENT OF THE ONBOARD PROCESSOR FOR PI-SAR2**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Junpei Uemoto, Seiho Uratsuka, Toshihiko Umehara, Shin-Ichi Yamamoto, Shinichi Taira, Makoto Satake, Shoichiro Kojima, Tatsuharu Kobayashi, Masaki Satoh, Kazuyoshi Kawasaki, Takeshi Matsuoka, Akitsugu Nadai, Ryutarō Suzuki**View**ADD **Paper Code:** TUP.Y.9**Paper Number:** 2663**Title:** SCAN SCHEME AND IMAGING ALGORITHM OF SOLAR POLAR ORBITER TELESCOPE (SPORT)**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Cheng Zhang, Ji Wu, Hao Liu, Jingye Yan, Weijing Sun, Shengwei Zhang

ViewADD **Paper Code:** WE3.T10.5**Paper Number:** 2664**Title:** OBSERVING MESOSCALE TO SUBMESOSCALE DYNAMICS TODAY, AND IN THE FUTURE WITH SWOT**Topic:** Oceans: Ocean Altimetry**Session:** The Surface Water and Ocean Topography (SWOT) Mission II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Rosemary Morrow, Lee-Lueng Fu**View**ADD **Paper Code:** TUP.P.2**Paper Number:** 2667**Title:** ONE-BIT DIGITAL CROSS-CORRELATION IN THE PARIS-IOD**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Serni Ribó, Oleguer Nogués-Correig, Antonio Rius**View**ADD **Paper Code:** WEP.A.7**Paper Number:** 2672**Title:** EXPERIMENTAL STUDY FOR GNSS-R POLARIMETRY**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ryuta Kato, Hirobumi Saito, Seisuke Fukuda**View**ADD **Paper Code:** WE4.T02.4**Paper Number:** 2673**Title:** ON THE POTENTIAL OF TANDEM-X FOR THE RETRIEVAL OF AGRICULTURAL CROP PARAMETERS BY SINGLE-PASS POLINSAR**Topic:** Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X**Session:** Polarimetric Interferometry: Applications with Tandem-X II**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Juan M. Lopez-Sanchez, J. David Ballester-Berman**View**ADD **Paper Code:** MOP.B.7**Paper Number:** 2674**Title:** LAND SURFACE EMISSIVITY RETRIEVAL FROM HJ-1B SATELLITE DATA USING A COMBINED METHOD**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hua Li, Qinhuo Liu, Jinxiong Jiang, Heshun Wang, Qing Li, Lin Sun**View**ADD **Paper Code:** TH4.T04.5**Paper Number:** 2675**Title:** ANALYSIS OF THE PASSIVE MICROWAVE HIGH-FREQUENCY SIGNAL IN THE SHALLOW SNOW RETRIEVAL**Topic:** Land: Land Ice and Snow**Session:** Remote Sensing of Polar Regions**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Yubao Qiu, Huadong Guo, Jiancheng Shi, Shichang Kang, Juha Lemmetyinen, James R. Wang**View**ADD **Paper Code:** WEP.N.4**Paper Number:** 2677**Title:** INTERPRETATION OF MULTI-WAVELENGTH-RETRIEVED CLOUD DROPLET EFFECTIVE RADII IN TERMS OF CLOUD VERTICAL INHOMOGENEITY USING A SPECTRAL-BIN MICROPHYSICS CLOUD MODEL AND THE RADIATIVE TRANSFER COMPUTATION**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Takashi N. Matsui, Kentaroh Suzuki, Takashi Y. Nakajima, Husi Letu**Paper Code:** TU3.T08.2**Paper Number:** 2683**Title:** FINE-GRAIN FEATURE ATTRIBUTION FOR IMAGE UNDERSTANDING USING RESIDUAL VECTOR QUANTIZATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Optical Image Processing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Irteza Syed Ali Khan, Christopher F. Barnes**View**ADD **Paper Code:** FR3.T08.1**Paper Number:** 2684**Title:** ROBUST DETECTION USING THE SIRV BACKGROUND MODELLING FOR HYPERSPECTRAL IMAGING**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in the Analysis of Hyperspectral Data**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Jean-Philippe Ovarlez, Sze Kim Pang, Frédéric Pascal, Véronique Achard, Teck Khim Ng**View**ADD **Paper Code:** WEP.I.8**Paper Number:** 2685**Title:** SOIL ISOLINE EQUATION IN RED-NIR REFLECTANCE SPACE FOR CROSS CALIBRATION OF NDVI BETWEEN SENSORS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hiroki Yoshioka, Kenta Obata**View**ADD **Paper Code:** WEP.H.10**Paper Number:** 2686**Title:** AUTOMATED MICRO-LANDFORM CLASSIFICATION BY COMBINATION OF SATELLITE IMAGES AND SRTM DEM**Topic:** Land: Natural Disaster / Land Slide**Session:** Advances in Earth Sensing and Applications II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Loan Ho, Yasushi Yamaguchi, Masatomo Umitsu**View**ADD **Paper Code:** TUP.Y.7**Paper Number:** 2687**Title:** RESPONSE CHARACTERISTICS OF RADIO SPECTROMETERS OF THE SUPERCONDUCTING SUBMILLIMETER-WAVE LIMB-EMISSION SOUNDER (JEM/SMILES)**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hiroyuki Ozeki, Kenta Tamaki, Satoko Mizobuchi, Chihiro Mitsuda, Takuki Sano, Makoto Suzuki, Ken-Ichi Kikuchi, Masato Shiotani**View**ADD **Paper Code:** MOP.K.4**Paper Number:** 2688**Title:** FAST AND ACCURATE GCPs SELECTION SCHEME FOR SAR IMAGE REGISTRATION BASED ON AN IMPROVED TRAJKOVIC CORNER DETECTOR**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Quang Huy Nguyen, Ian Mcloughlin, Timo Bretschneider**View****Paper Code:** FR1.T04.1**Paper Number:** 2698

ADD **Title:** A NOVEL GROUND BASED MULTI BISTATIC RADAR FOR INTERFEROMETRIC MEASUREMENT OF DISPLACEMENT VECTOR**Topic:** Sensors and Platforms: Gound Based System**Session:** Ground Based System II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Daniele Mecatti, Devis Dei, Matteo Fratini, Filippo Parrini, Massimiliano Pieraccini, Francesco Coppi

View

ADD **Paper Code:** MO4.T03.2**Paper Number:** 2699**Title:** COMPARISON OF L AND C BANDS RADAR TIME SERIES FOR THE MONITORING OF SAHELIAN AREA**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture from Microwave Time Series**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Pierre-Louis Frison, Grégoire Mercier, Eric Mougouin, Pierre Hiernaux

View

ADD **Paper Code:** MOP.J.4**Paper Number:** 2701**Title:** MAPPING AND RECOVERING CLOUD-CONTAMINATED AREA IN MULTISPECTRAL SATELLITE IMAGERY WITH VISIBLE AND NEAR-INFRARED BANDS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yi-Shiang Shiu, Meng-Lung Lin, Tzu-How Chu

View

ADD **Paper Code:** TUPL.3**Paper Number:** 2702**Title:** BIOMASS RETRIEVAL BASED ON POLARIMETRIC TARGET DECOMPOSITION**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Zhiyu Zhang, Yong Wang, Guoqing Sun, Wenjian Ni, Wenli Huang, Lixin Zhang

View

ADD **Paper Code:** TUP.C.8**Paper Number:** 2705**Title:** ANALYSIS FOR AZIMUTH SUB-NYQUIST'S SAMPLING FOR SAR UNDER THE FRAMEWORK OF COMPRESIVE SENSING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yin Xiang, Bingchen Zhang, Wen Hong, Yirong Wu

View

ADD **Paper Code:** TH3.T03.3**Paper Number:** 2706**Title:** PHASE ERROR ASSESSMENT OF MIRAS/SMOS BY MEANS OF THE REDUNDANT SPACE CALIBRATION**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Soil Moisture and Ocean Salinity (SMOS) Mission**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Rubén Dávila, Francesc Torres, Nuria Duffo, Ignasi Corbella, Miriam Pablos, Manuel Martín-Neira

View

Paper Code: TU3.T01.2**Paper Number:** 2711**Title:** HIGH RESOLUTION DIFFERENTIAL INTERFEROMETRIC STACKING VIA ADAPTIVE SPATIAL PHASE FILTERING

ADD

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: Time-Series and Stacking Interferometry I
Time: Tuesday, July 26, 13:20 - 15:00
Authors: Kanika Goel, Nico Adam

View

Paper Code: TU4.T01.1 **Paper Number:** 2712**Title:** Tianjin InSAR time series analysis with L and X-bandADD

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: Time-Series and Stacking Interferometry II
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Qingli Luo, Daniele Perissin, Qinghua Li, Hui Lin, Ralf Duering

View

Paper Code: TH2.T01.2 **Paper Number:** 2713**Title:** A NEW ALGORITHM FOR NOISE REDUCTION AND QUALITY IMPROVEMENT IN SAR INTERFEROGRAMS USING INPAINTING AND DIFFUSIONADD

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: SAR/InSAR Image Extraction and Improvement Techniques
Time: Thursday, July 28, 10:20 - 12:00
Authors: Silvia Liberata Ullo, Maurizio Di Bisceglie, Carmela Galdi

View

Paper Code: MO4.T06.1 **Paper Number:** 2714**Title:** ROBUST ESTIMATION OF DIELECTRIC CONSTANT BY GPR USING AN ANTENNA ARRAYADD

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Applications
Time: Monday, July 25, 15:20 - 17:00
Authors: Hai Liu, Motoyuki Sato

View

Paper Code: MO3.T10.1 **Paper Number:** 2715**Title:** ESTIMATION OF THE DIFFUSE ATTENUATION COEFFICIENT $K_d(\lambda)$ WITH A NEURAL NETWORK INVERSIONADD

Topic: Oceans: Ocean Biology (Color) and Water Quality
Session: Ocean Biology (Color) and Water Quality I
Time: Monday, July 25, 13:20 - 15:00
Authors: Cedric Jamet, Hubert Loisel, David Dessailly

View

Paper Code: WE3.T01.3 **Paper Number:** 2716**Title:** Mitigation of atmospheric delay in InSAR: the ESA METAWAVE projectADD

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: Calibration and Error Mitigation
Time: Wednesday, July 27, 13:20 - 15:00
Authors: Daniele Perissin, Fabio Rocca, Mauro Pierdicca, Emanuela Pichelli, Domenico Cimini, Giovanna Venuti, Bjorn Rommen

View

Paper Code: WE4.T02.3 **Paper Number:** 2717**Title:** TEST OF EQUI-SCATTERING MECHANISMS FOR POLINSAR APPLICATIONS WITH TANDEM-XADD

Topic: Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X
Session: Polarimetric Interferometry: Applications with Tandem-X II
Time: Wednesday, July 27, 15:20 - 17:00

[View](#)ADD **Authors:** Armando Marino, Shane R. Cloude, Juan M. Lopez-Sanchez**Paper Code:** MOP.R.7**Paper Number:** 2718**Title:** THE CAUSE ANALYSIS ON THE LOWEST RUNOFF IN THE UPPER REACHES OF YELLOW RIVER FROM 1990 TO 2004**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jianying Feng, Yaohui Li, Chunmei Liao, Jingsong Wang[View](#)ADD **Paper Code:** TH2.T06.5**Paper Number:** 2721**Title:** ESTIMATING BIOPHYSICAL VARIABLES IN RICE CANOPIES BY HIGH-RESOLUTION X-SAR AND C-SAR SIGNATURES**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Yoshio Inoue, Eiji Sakaiya, Naoki Ishitsuka[View](#)ADD **Paper Code:** TU1.T04.5**Paper Number:** 2722**Title:** MODEL-BASED POLARIMETRIC DECOMPOSITION USING POLINSAR COHERENCE**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Student Paper Contest I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Si-Wei Chen, Motoyuki Sato[View](#)ADD **Paper Code:** TUP.N.7**Paper Number:** 2724**Title:** RETRIEVING SEASONAL SEA SURFACE SALINITY FROM MODIS SATELLITE DATA USING A BOX-JENKINS ALGORITHM**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Maged Marghany, Mazlan Hashim[View](#)ADD **Paper Code:** FR3.T03.5**Paper Number:** 2725**Title:** Development and Performance Assessment of a Real Time High-Resolution RF Channel Sounder**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance III**Time:** Friday, July 29, 13:20 - 15:00**Authors:** David Ferreira, Rafael Caldeirinha[View](#)ADD **Paper Code:** TUP.R.9**Paper Number:** 2727**Title:** CHARACTERIZATION OF ARCTIC SEA ICE THICKNESS USING SPACE-BORNE POLARIMETRIC SAR DATA**Topic:** Oceans: Sea Ice**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jin-Woo Kim, Duk-Jin Kim, Byong Jun Hwang[View](#)ADD **Paper Code:** WEP.M.4**Paper Number:** 2729**Title:** THE PARAMETERIZED EMISSION MODEL OF DRY SNOW AND APPLICATION TO SWE RETRIEVAL**Topic:** Land: Land Ice and Snow

Session: Research Projects and Passive Microwave Remote Sensing Snow and Ice

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Xiaojun Yin, Jiancheng Shi, Lingmei Jiang

View

ADD

Paper Code: TUP.U.2

Paper Number: 2730

Title: COMPARATIVE ALGORITHMS FOR OIL SPILL AUTOMATIC DETECTION USING MULTIMODE RADARSAT-1 SAR DATA

Topic: Environmental Applications: Pollution and Contamination

Session: Pollution and Contamination I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Maged Marghany, Mazlan Hashim

View

ADD

Paper Code: MOP.Q.9

Paper Number: 2733

Title: AUTOMATIC TREE STEM DELINEATION SUPPORTING FOREST INVENTORY

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis I

Time: Monday, July 25, 17:00 - 18:30

Authors: Matthieu Molinier, Kaj Andersson, Tuomas Häme

View

ADD

Paper Code: TH2.T08.4

Paper Number: 2734

Title: THREE-DIMENSIONAL MICROWAVE IMAGING METHOD VIA SUBAPERTURE APPROXIMATION

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: SAR Image Processing II

Time: Thursday, July 28, 10:20 - 12:00

Authors: Liao Kefei, Zhang Xiaoling, Shi Jun, Liu Zhe

View

ADD

Paper Code: MOP.Z.5

Paper Number: 2736

Title: GAIN NONLINEARITY CALIBRATION OF THE SMILES RECEIVER

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Passive Optical and Hyperspectral Sensors II

Time: Monday, July 25, 17:00 - 18:30

Authors: Satoshi Ochiai, Kenichi Kikuchi, Toshiyuki Nishibori, Satoko Mizobuchi, Takeshi Manabe, Chihiro Mitsuda, Philippe Baron

View

ADD

Paper Code: TH4.T04.3

Paper Number: 2737

Title: ESTIMATION OF AIR AND SURFACE TEMPERATURE EVOLUTION OF THE EAST ANTARCTIC SHEET BY MEANS OF PASSIVE MICROWAVE REMOTE SENSING

Topic: Land: Land Ice and Snow

Session: Remote Sensing of Polar Regions

Time: Thursday, July 28, 15:20 - 17:00

Authors: Marco Brogioni, Giovanni Macelloni, Simone Pettinato, Francesco Montomoli

View

ADD

Paper Code: WE1.T07.3

Paper Number: 2738

Title: ANALYSIS OF PRECIPITATION IN REPEATED ACQUISITIONS COLLECTED BY THE COSMO SKYMED CONSTELLATION IN POLARIMETRIC MODE

Topic: Atmosphere: Precipitation and Clouds

Session: Precipitation and Clouds I

Time: Wednesday, July 27, 08:20 - 10:00

ViewADD

Authors: Luca Baldini, Nicoletta Roberto, Eugenio Gorgucci, Jason Fritz, Venkatachalam Chandrasekar

Paper Code: MO4.T07.5**Paper Number:** 2739**Title:** MULTI-SCALE SEGMENTATION IN CHANGE DETECTION FOR URBAN HIGH RESOLUTION IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing I**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Junping Zhang, Chunfang Mu, Hao Chen, Ye Zhang**View**ADD **Paper Code:** WEP.C.5**Paper Number:** 2741**Title:** LAND COVER DISCRIMINATION AT BRAZILIAN AMAZON USING REGION BASED CLASSIFIER AND STOCHASTIC DISTANCE**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Wagner Silva, Luciana Pereira, Sidnei Sant'Anna, Corina Freitas, Ricardo Guimarães, Alejandro Frery**View**ADD **Paper Code:** WE4.T04.5**Paper Number:** 2745**Title:** ANALYSIS OF ACTIVE AND PASSIVE MICROWAVE OBSERVATIONS FROM THE NOSREX CAMPAIGN**Topic:** Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow**Session:** Active/Passive Microwave Remote Sensing of Terrestrial Snow I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Juha Lemmetyinen, Jouni Pulliainen, Ali Nadir Arslan, Anna Kontu, Kimmo Rautiainen, Juho Vehviläinen, Andreas Wiesmann, Thomas Nagler, Helmut Rott, Malcolm Davidson, Dirk Schuettemeyer, Michael Kern**View**ADD **Paper Code:** TU4.T09.5**Paper Number:** 2746**Title:** Mining large satellite image repositories using semi-supervised methods**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Data Mining and Machine Learning for Remote Sensing II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Pierre Blanchart, Marin Ferecatu, Mihai Datcu**View**ADD **Paper Code:** WE3.T07.5**Paper Number:** 2748**Title:** RELATIONSHIP BETWEEN CLOUD DROPLET EFFECTIVE RADIUS AND CLOUD TOP HEIGHT FOR DEEP CONVECTIVE CLOUDS IN CLOUDSAT DATA PRODUCT**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds III**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Satoshi Suzuki, Shinta Seto, Taikan Oki**View**ADD **Paper Code:** MOP.G.9**Paper Number:** 2749**Title:** QUANTITATIVE EVALUATION FOR COMPACT POLARIMETRIC SAR IMAGE RECONSTRUCTION BASED ON INFORMATION-THEORETIC ANALYSIS**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jie Chen, Yu Li, Xianzhong Wen, Chunsheng Li

ViewADD **Paper Code:** MO4.T07.3**Paper Number:** 2751**Title:** FEATURE SELECTION FOR TREE SPECIES IDENTIFICATION IN VERY HIGH RESOLUTION SATELLITE IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing I**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Matthieu Molinier, Heikki Astola**View**ADD **Paper Code:** TUP.W.8**Paper Number:** 2762**Title:** HYDROTHERMAL ALTERATION BASED ON THE INTERGRATION ANALYSIS OF AIRBORNE HYPERSPECTRAL, FIELD AND LABORATORY DATA, SOUTHERN NAMIBIA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Anna Nguno, Kombada Mhopjeni, Aphary Muyongo, Minsozi Sibeso, Ewereth Muvangua, Atsushi Momose, Dr. Yessy Arvelyna, Shuichi Miyatake**View**ADD **Paper Code:** MOP.K.5**Paper Number:** 2763**Title:** ESTIMATING GEOMETRICAL TRANSFORM PARAMETERS FOR AFFINE-TRANSFORM-BASE GEOMETRICAL CORRECTIONS**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Hiroyuki Saito**View**ADD **Paper Code:** TH1.T05.3**Paper Number:** 2764**Title:** RELATIONSHIPS BETWEEN PALSAR BACKSCATTERING DATA AND FOREST ABOVE GROUND BIOMASS IN JAPAN**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing III**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Takeshi Motohka, Masanobu Shimada, Osamu Isoguchi, Masae Ishihara, Satoshi Suzuki**View**ADD **Paper Code:** WEP.M.5**Paper Number:** 2765**Title:** SIMULATION OF EMISSION PROPERTIES AND SNOW-SOIL SYSTEM STATUS OF A MELTING THIN SNOWPACK**Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jinmei Pan, Lingmei Jiang, Lixin Zhang, Shaojie Zhao, Pei Wang, Zhenguo Hao, Lijiao Xiao, Tianjie Zhao, Fengmin Wu**View**ADD **Paper Code:** TUP.S.4**Paper Number:** 2766**Title:** RESEARCH ON THE METHOD OF 3D MODELING FOR GEOLOGICAL BODY**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Chunhua Xiu, Defu Che, Jiayu Che

[View](#)ADD **Paper Code:** WE1.T06.5**Paper Number:** 2771**Title:** Anisotropic surfaces detection using intensity maps acquired by an airborne LIDAR emitting in near-IR over coastal environments**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands III**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Franck Garestier, Patrice Bretel, Olivier Monfort, Franck Levoy[View](#)ADD **Paper Code:** WEP.F.8**Paper Number:** 2774**Title:** A NEW METHOD OF TUNNEL 3D MODELING AND ITS APPLICATIONS**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Defu Che, Chunhua Xiu, Jiayu Che[View](#)ADD **Paper Code:** MOP.N.6**Paper Number:** 2775**Title:** LAND USE AND LANDSCAPE PATTERN CHANGES IN NANJING DURING 1988-2007**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Zhihui Wang, Qiu Yin[View](#)ADD **Paper Code:** WEP.R.1**Paper Number:** 2778**Title:** MODELLING SHORELINE CHANGE USING POINTWISE ALGORITHM FROM DIFFERENT TOPSAR POLARISED BANDS**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Environmental Applications I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Maged Marghany, Mazlan Hashim[View](#)ADD **Paper Code:** TUP.T.5**Paper Number:** 2779**Title:** MONITORING WETLAND CHANGES IN THREE-RIVER-SOURCE, QINGHAI, CHINA**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yang Renmin, An Ru, Chen Zhixia, Qu Chunmei, Gong Tianyu, Li Xiaoxue, Lu Ling, Wu Hong, Liu Yingying, Liang Xin, Chen Haiyan[View](#)ADD **Paper Code:** TUP.S.11**Paper Number:** 2785**Title:** ESTIMATION OF TREE CROWN STRUCTURE IN URBAN AREAS USING HIGH RESOLUTION AIRBORNE LIDAR**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Haruki Oshio, Takashi Asawa, Akira Hoyano, Satoshi Miyasaka[View](#)ADD **Paper Code:** FR2.T09.3**Paper Number:** 2787**Title:** INTEGRATING VIRTUAL ENVIRONMENT AND GIS FOR 3D VIRTUAL CITY DEVELOPMENT AND URBAN PLANNING**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques III

- Time:** Friday, July 29, 10:20 - 12:00
Authors: Bin Chen, Fengru Huang, Yu Fang
- View**
 ADD
- Paper Code:** TU3.T08.3 **Paper Number:** 2790
Title: A SELF-ADJUSTIVE GEOMETRIC CORRECTION METHOD FOR SERIOUSLY OBLIQUE AERO IMAGE
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Optical Image Processing
Time: Tuesday, July 26, 13:20 - 15:00
Authors: Chunyuan Wang, Ye Zhang, Pigang Liu, Qi Xu, Yanfeng Gu
- View**
 ADD
- Paper Code:** MOP.H.1 **Paper Number:** 2791
Title: DSM MEASUREMENT FOR EXPOSED GRAVEL SURFACE USING CLOSE-RANGE PHOTOGRAMMETRY WITH MULTI-SCALE IMAGES
Topic: Environmental Applications: Geology and Solid Earth
Session: High Resolution Optical Sensing II
Time: Monday, July 25, 17:00 - 18:30
Authors: Jui-Teng Tsung, Chi-Kuei Wang
- View**
 ADD
- Paper Code:** TU4.T08.1 **Paper Number:** 2792
Title: A METHODOLOGY OF FOREST MONITORING FROM HYPERSPECTRAL IMAGES WITH SPARSE REGULARIZATION
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Hyperspectral Monitoring of the Environment I
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Keigo Yoshida, Takashi Ohki, Masahiro Terabe, Hozuma Sekine, Tomomi Takeda
- View**
 ADD
- Paper Code:** WEP.W.8 **Paper Number:** 2796
Title: PERFORMANCE ESTIMATION AND GEOMETRIC CORRECTION OF GEOSTATIONARY OCEAN COLOR IMAGER (GOCI) DATA
Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors
Session: Missions and Instruments I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Jung-Hwan Song, Chan-Su Yang, Hee-Jeong Han, Jung-Soo Jung
- View**
 ADD
- Paper Code:** WEP.M.10 **Paper Number:** 2798
Title: INTEGRATED OBSERVATIONS OF LAKE ICE AT NAM CO ON THE TIBETAN PLATEAU FROM 2001 TO 2009
Topic: Land: Land Ice and Snow
Session: Research Projects and Passive Microwave Remote Sensing Snow and Ice
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Qinghua Ye, Qiufang Wei, Volker Hochschild, Claude R. Duguay
- View**
 ADD
- Paper Code:** MOP.L.3 **Paper Number:** 2799
Title: GROUND-TRUTH ASSISTED DESIGN FOR REMOTE SENSING IMAGE CLASSIFICATION
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Segmentation and Object Detection
Time: Monday, July 25, 17:00 - 18:30
Authors: Edoardo Pasolli, Farid Melgani
- View**
 ADD
- Paper Code:** TU1.T02.3 **Paper Number:** 2800

ADD **Title:** A MULTITEXTURE MODEL FOR MULTILOOK POLARIMETRIC RADAR DATA**Topic:** Invited Sessions: Signal processing techniques for for POL-SAR and POL-inSAR applications**Session:** SAR Polarimetry: Theory and Applications I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Torbjørn Eltoft, Stian Normann Anfinsen, Anthony Paul Doulgeris

View

Paper Code: FR1.T09.3**Paper Number:** 2802ADD **Title:** REMOTE SENSING INDICATORS FOR CROP GROWTH MONITORING AT DIFFERENT SCALES**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** GIS and Agro-Geoinformatics Applications**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Zongnan Li, Zhongxin Chen

View

Paper Code: MOP.P.5**Paper Number:** 2806ADD **Title:** ASSESSING DEFORESTATION RELATED CARBON EMISSION IN THE BRAZILIAN SAVANNA BASED ON MODERATE RESOLUTION IMAGERY**Topic:** Land: Forests and Vegetation**Session:** Tropical Forests**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Nilson Ferreira, Laerte Ferreira Jr., Manuel Ferreira, Mercedes Bustamante, Jean Ometto

View

Paper Code: MOP.N.8**Paper Number:** 2807ADD **Title:** A COMPARISON OF FEATURE EXTRACTION METHODS WITHIN A SPATIO-TEMPORAL LAND COVER CHANGE DETECTION FRAMEWORK**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Waldo Kleynhans, Brian Salmon, Jan C. Olivier, Konrad Wessels, Frans van den Bergh

View

Paper Code: TU3.T04.3**Paper Number:** 2808ADD **Title:** FIRST BISTATIC SPACEBORNE SAR EXPERIMENTS WITH TANDEM-X**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments III**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Marc Rodriguez-Cassola, Pau Prats, Daniel Schulze, Nuria Tous-Ramon, Ulrich Steinbrecher, Luca Marotti, Matteo Nannini, Marwan Younis, Paco López-Dekker, Manfred Zink, Andreas Reigber, Gerhard Krieger, Alberto Moreira

View

Paper Code: MOP.I.8**Paper Number:** 2809ADD **Title:** MULTIREOLUTION FUSION USING CONTOURLET TRANSFORM BASED EDGE LEARNING**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Kishor Upla, Prakash Gajjar, Manjunath Joshi

View

Paper Code: TUP.D.1**Paper Number:** 2813**Title:** AN IMPROVED SPECTRAL REFLECTANCE AND DERIVATIVE FEATURE FUSION FOR HYPERSPECTRAL IMAGE CLASSIFICATION

ADD **Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qingyan Wang, Junping Zhang, Jiawei Chen, Ye Zhang

View

Paper Code: MO3.T05.5**Paper Number:** 2814**Title:** MULTI-SPECTRAL SATELLITE IMAGE CLASSIFICATION USING

GLOWWORM SWARM OPTIMIZATION

ADD **Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Senthilnath J, Omkar S.N., Mani V, Tejovanth N, Diwakar P. G., Archana Shenoy B

View

Paper Code: TH3.T04.4**Paper Number:** 2815**Title:** INVESTIGATING HEMISPHERICAL TRENDS IN SNOW ACCUMULATION

USING GLOBSNOW SNOW WATER EQUIVALENT DATA

ADD **Topic:** Land: Land Ice and Snow**Session:** Passive Microwave of Snow and Its Application**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Kari Luojus, Jouni Pulliainen, Matias Takala, Juha Lemmetyinen, Chris Derksen, Sari Metsämäki, Bojan Bojkov

View

Paper Code: TH2.T08.5**Paper Number:** 2817**Title:** REGISTRATION OF MULTI-FREQUENCY SAR IMAGERY USING PHASE

CORRELATION METHODS

ADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Erica Peterson, Georgia Fotopoulos, Andreas Schmitt, Robert Zee, Achim Roth

View

Paper Code: FR2.T10.3**Paper Number:** 2818**Title:** Studies of Radio Frequency Interference in SMOS Observations**Topic:** Invited Sessions: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave RadiometryADD **Session:** Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Joel Johnson, Mustafa Aksoy

View

Paper Code: TUP.A.6**Paper Number:** 2819**Title:** SURFACE DEFORMATION MONITORING OF MIYAKEJIMA VOLCANO

USING DINSAR TECHNIQUE OF ALOS PALSAR IMAGES

ADD **Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ilham Alimuddin, Luhur Bayuaji, Josaphat Tetuko Sri Sumantyo, Hiroaki Kuze

View

Paper Code: WEP.G.6**Paper Number:** 2820**Title:** A GENERAL METHOD OF GENERATING SATELLITE EPIPOLAR IMAGES BASED ON RPC MODELADD **Topic:** Advances in Analysis Techniques (Theoretical): Others

Session: Advances in Analysis Techniques I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Hongbo Pan, Guo Zhang, Tan Chen

View

ADD

Paper Code: WEP.Q.7

Paper Number: 2823

Title: THE IMPACT OF TERRAIN ON NDVI DYNAMICS OF CORN FIELD USING GENERALIZED ESTIMATING EQUATIONS AND TIME-SERIES MODIS IMAGES

Topic: Environmental Applications: Agroecosystems

Session: Agroecosystems I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Meng-Lung Lin, Cheng-Hwang Perng

View

ADD

Paper Code: TUP.I.4

Paper Number: 2827

Title: A BUILDING EXTRACTION METHOD USING SHADOW IN HIGH RESOLUTION MULTISPECTRAL IMAGES

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Urban Areas, Buildings and Roads

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Lei Hu, Jin Zheng, Feng Gao

View

ADD

Paper Code: TH2.T05.4

Paper Number: 2829

Title: APPLICATION OF MULTI SPECTRAL DATA OF ASTER IN OIL AND GAS EXPLORATION ACTIVITIES

Topic: Invited Sessions: ASTER

Session: ASTER

Time: Thursday, July 28, 10:20 - 12:00

Authors: Takatoshi Namikawa, Masatane Kato, Yoshimitsu Negishi, Takumi Onuma

View

ADD

Paper Code: TU3.T01.5

Paper Number: 2831

Title: DEM CORRECTIONS BEFORE UNWRAPPING IN A SMALL BASELINE STRATEGY FOR INSAR TIME SERIES ANALYSIS

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Time-Series and Stacking Interferometry I

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Gabriel Ducret, Marie Pierre Doin, Raphaël Grandin, Cécile Lasserre, Stéphane Guillaso

View

ADD

Paper Code: TUP.I.5

Paper Number: 2832

Title: BUILDING FOOTPRINT EXTRACTION BY FUSING DUAL-ASPECT SAR IMAGES

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Urban Areas, Buildings and Roads

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Lu Liu, Fengli Zhang, Qinghe Wu, Guojun Wang

View

ADD

Paper Code: FR2.T06.3

Paper Number: 2833

Title: AN ENGINEERING RESEARCH AND DEVELOPMENT OF COMPACT AND LIGHTWEIGHT AIRBORNE SAR FOR EXTRACTING INUNDATED AREA

Topic: Land: Natural Disaster / Land Slide

Session: Remote Sensing for Natural Disasters Monitoring and Management

Time: Friday, July 29, 10:20 - 12:00

Authors: Takashi Shibayama, Kazuo Yoshikawa, Yoshio Yamaguchi

ViewADD **Paper Code:** TU3.T06.2**Paper Number:** 2834**Title:** IDENTIFICATION AND CHARACTERIZATION OF URBAN STRUCTURES USING VHR SAR DATA**Topic:** Environmental Applications: Urban and Built Environment**Session:** VHR Urban Remote Sensing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Thomas Esch, Martin Schmidt, Markus Breunig, Andreas Felbier, Hannes Taubenböck, Wieke Heldens, Christian Riegler, Achim Roth, Stefan Dech**View**ADD **Paper Code:** WEP.K.8**Paper Number:** 2835**Title:** ESTIMATION OF SOIL ROUGHNESS PARAMETERS FROM SURFACE HEIGHT PROFILE**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Masahiko Nishimoto**View**ADD **Paper Code:** TH2.T06.3**Paper Number:** 2838**Title:** MAPPING ASH TREE COLONIZATION IN AN AGRICULTURAL MOUNTAIN LANDSCAPE: INVESTIGATING THE POTENTIAL OF HYPERSPECTRAL IMAGERY**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** David Sheeren, Mathieu Fauvel, Sylvie Ladet, Anne Jacquin, Georges Bertoni, Annick Gibon**View**ADD **Paper Code:** TH4.T04.4**Paper Number:** 2840**Title:** RESULTS FROM THE RADIATION, SNOW CHARACTERISTICS AND ALBEDO AT SUMMIT (RASCALS) CAMPAIGN ON THE GREENLAND ICE SHEET DURING POLAR SUMMER 2010**Topic:** Land: Land Ice and Snow**Session:** Remote Sensing of Polar Regions**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Aku Riihelä, Panu Lahtinen, Teemu Hakala**View**ADD **Paper Code:** TU1.T01.4**Paper Number:** 2842**Title:** A COHERENT BACKSCATTERING MODEL FOR GROWING CORN**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Volume Scattering**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Alejandro Monsiváis-Huertero, Jasmeet Judge**View**ADD **Paper Code:** MOP.J.9**Paper Number:** 2843**Title:** HIGH PERFORMANCE IMAGE PROCESSING OF SATELLITE IMAGES USING GRAPHICS PROCESSING UNITS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Michal Rumanek, Tomasz Danek, Andrzej Lesniak**View**ADD **Paper Code:** FR1.T09.2**Paper Number:** 2845**Title:** SIMULATION OF REGIONAL WINTER WHEAT YIELD BY COMBINING EPIC MODEL AND REMOTELY SENSED LAI BASED ON GLOBAL OPTIMIZATION ALGORITHM

Topic: Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment

Session: GIS and Agro-Geoinformatics Applications

Time: Friday, July 29, 08:20 - 10:00

Authors: Jianqiang Ren, Zhongxin Chen, Huajun Tang, Fushui Yu, Qing Huang

View

ADD

Paper Code: WE4.T01.4

Paper Number: 2847

Title: SCENE CLASS RECOGNITION USING HIGH RESOLUTION SAR/INSAR SPECTRAL DECOMPOSITION METHODS

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Compressive Sensing and Dimensionality Reduction

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Anca Popescu, Inge Gavat, Mihai Datcu

View

ADD

Paper Code: WE2.T05.2

Paper Number: 2849

Title: MONITORING VEGETATION WATER CONTENT BY USING OPTICAL VEGETATION INDEX AND MICROWAVE VEGETATION INDEX: FIELD EXPERIMENTS AND APPLICATIONS

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis II

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Hui Lu, Toshio Koike, Hiroyuki Tsutsui, Hedeyuki Fujii

View

ADD

Paper Code: TU3.T05.3

Paper Number: 2850

Title: USE MULTIFREQUENCY SAR POLARIMETRY FOR TROPICAL FOREST STRATIFICATION

Topic: Land: Forests and Vegetation

Session: SAR/Lidar Sensing II

Time: Tuesday, July 26, 13:20 - 15:00

Authors: Cédric Lardeux, David Niamien, Jean-Baptiste Routier, Pierre-Louis Frison, Eric Pottier, Jean-Paul Rudant

View

ADD

Paper Code: TUP.N.2

Paper Number: 2852

Title: MODELING SPECTRAL REFLECTANCE OF OPTICALLY COMPLEX WATERS AROUND THE KOREA

Topic: Oceans: Ocean Biology (Color) and Water Quality

Session: Ocean Biology (Color) and Water Quality II

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Jee-Eun Min, Joo-Hyung Ryu, Yu-Hwan Ahn

View

ADD

Paper Code: FR1.T06.2

Paper Number: 2853

Title: DEEP-SEATED GRAVITATIONAL SLOPE DEFORMATION (DGSD) MEASURED BY HIGH-RESOLUTION COSMO-SKYMED SAR

Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas

Session: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas II

Time: Friday, July 29, 08:20 - 10:00

Authors: Marco Moro, Marco Chini, Michele Saroli, Simone Atzori, Salvatore Stramondo, Stefano Salvi

View

Paper Code: FR1.T01.5

Paper Number: 2854

Title: AN INTERFEROMETRIC COHERENCE OPTIMIZATION METHOD BASED ON GENETIC ALGORITHM IN POLINSAR

ADD **Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLINSAR**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Peifeng Ma, Hong Zhang, Chao Wang, Jiehong Chen

View

Paper Code: WEP.O.2**Paper Number:** 2855**Title:** EVALUATING THE PHYSICS OPTIONS OF REGIONAL WEATHER MODELS FOR AREAS WITH COMPLEX LAND-USE CHARACTERISTICSADD **Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** H. S. Badr, H. A. Kandil, B. M. Elhadidi, A. O. Sherif

View

Paper Code: TH1.T06.3**Paper Number:** 2856**Title:** CHARMS - CHINA AGRICULTURAL REMOTE SENSING MONITORING SYSTEMADD **Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Remote Sensing and Geo-informatics for Agricultural Monitoring and Assessment**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Zhongxin Chen, Qingbo Zhou, Jia Liu, Limin Wang, Jianqiang Ren, Qing Huang, Hui Deng, Li Zhang, Dandan Li

View

Paper Code: TUP.R.3**Paper Number:** 2857**Title:** DESIGN AND EVALUATION OF A SEA CLUTTER SIMULATORADD **Topic:** Oceans: Others**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Titus Oyedokun, Michael Raymond Inggs

View

Paper Code: MO3.T04.3**Paper Number:** 2860**Title:** NPP ATMS PRELAUNCH PERFORMANCE ASSESSMENT AND SENSOR DATA RECORD VALIDATIONADD **Topic:** Atmosphere: Atmospheric Sounding**Session:** US Joint Polar Satellite System I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** William J. Blackwell, Lynn Chidester, Edward J. Kim, R. Vincent Leslie, Joseph Lyu, Tsan Mo

View

Paper Code: TUP.S.8**Paper Number:** 2862**Title:** POLSAR SCENE CLASSIFICATION BASED ON FAST APPROXIMATE NEAREST NEIGHBOURS SEARCHADD **Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Lijun Chen, Wen Yang, Ying Liu, Hong Sun

View

Paper Code: TU3.T08.4**Paper Number:** 2863**Title:** SATELLITE IMAGE ARTIFACTS DETECTION BASED ON COMPLEXITY DISTORTION THEORYADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Optical Image Processing**Time:** Tuesday, July 26, 13:20 - 15:00

[View](#)ADD **Authors:** Avid Roman-Gonzalez, Mihai Datcu**Paper Code:** TH1.T07.3**Paper Number:** 2864**Title:** SEASONAL VARIATIONS OF GREENHOUSE GAS COLUMN-AVERAGED DRY AIR MOLE FRACTIONS RETRIEVED FROM SWIR SPECTRA OF GOSAT TANSO-FTS**Topic:** Atmosphere: Atmospheric Sounding**Session:** Satellite-Based Atmospheric Sounding and Imaging**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Nawo Eguchi, Yukio Yoshida, Isamu Morino, Nobuyuki Kikuchi, Tazu Saeki, Makoto Inoue, Osamu Uchino, Shamil Maksyutov, Hiroshi Watanabe, Tatsuya Yokota[View](#)ADD **Paper Code:** TU2.T06.4**Paper Number:** 2866**Title:** DAMAGE MAPPING BY USING OBJECT TEXTURAL PARAMETERS OF VHR OPTICAL DATA**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Area Monitoring**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Christian Bignami, Marco Chini, Salvatore Stramondo, William J. Emery, Nazzeno Pierdicca[View](#)ADD **Paper Code:** TUP.U.3**Paper Number:** 2872**Title:** RESEARCH ON MONITORING OF THE FIRE POINTS OF STRAW BURNING BASED ON HJ-1/IRS AND ITS EFFECTS ON AIR QUALITY**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qing Li, Qiao Wang, Zhongting Wang, Xiang Zhao, Chunyan Zhou, Lijuan Zhang, Hui Chen[View](#)ADD **Paper Code:** MOP.J.10**Paper Number:** 2878**Title:** DISPARITY COMPUTATION OF CORNER POINTS BY ENHANCING FEATURE EXTRACTORS FOR SPARSE NARROW-BASELINE STEREO MATCHING**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Raghavendra Bhalerao, Shirish Gedam[View](#)ADD **Paper Code:** FR4.T09.5**Paper Number:** 2879**Title:** AN INDIRECT DOPPLER RATE ESTIMATION SCHEME OF SAR IN LOW-CONTRAST SCENE**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Wenchao Li, Yulin Huang, Jianyu Yang, Junjie Wu[View](#)ADD **Paper Code:** MOP.Z.2**Paper Number:** 2880**Title:** THE LANDSAT DATA CONTINUITY MISSION OPERATIONAL LAND IMAGER: RADIOMETRIC PERFORMANCE**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Brian Markham, Philip Dabney, Jeffrey Pedelty

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|---|--|
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TUP.Y.4 Paper Number: 2882</p> <p>Title: VICARIOUS CALIBRATION OF AMSU-A</p> <p>Topic: Sensors and Platforms: Radiometer Instruments and Calibration</p> <p>Session: Microwave Radiometry Missions and Instrument Performance I</p> <p>Time: Tuesday, July 26, 17:00 - 18:30</p> <p>Authors: Darren McKague</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: MOP.B.8 Paper Number: 2884</p> <p>Title: SPLIT-WINDOW METHOD FOR LAND SURFACE TEMPERATURE ESTIMATION FROM FY-3A/VIRR DATA</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling</p> <p>Session: Electromagnetic Modeling of Random Rough Surfaces and Volumes</p> <p>Time: Monday, July 25, 17:00 - 18:30</p> <p>Authors: Jinxiong Jiang, Qinhuo Liu, Hua Li, Huaguo Huang</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: WE2.T02.5 Paper Number: 2885</p> <p>Title: PRODUCTION CHAIN TOWARDS FIRST CALIBRATED AND MOSAICKED TANDEM-X DEMS</p> <p>Topic: Invited Sessions: TanDEM-X Commissioning Phase Results</p> <p>Session: TanDEM-X Commissioning Phase Results II</p> <p>Time: Wednesday, July 27, 10:20 - 12:00</p> <p>Authors: Birgit Wessel, Astrid Gruber, Anna Wendleder, Martin Huber, Markus Breunig, Ursula Marschalk, Detlev Kosmann, Achim Roth</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TU1.T03.3 Paper Number: 2886</p> <p>Title: EFFECT OF SOIL MOISTURE ON POLARIMETRIC-INTERFEROMETRIC REPEAT PASS OBSERVATIONS BY UAVSAR DURING 2010 CANADIAN SOIL MOISTURE CAMPAIGN</p> <p>Topic: Land: Soils and Soil Moisture</p> <p>Session: Soil Moisture Remote Sensing I</p> <p>Time: Tuesday, July 26, 08:20 - 10:00</p> <p>Authors: Scott Hensley, Thierry Michel, Jakob Van Zyl, Ronald Muellerschoen, Bruce Chapman, Shadi Oveisgharan, Ziad Haddad, Thomas Jackson, Iliana Mladenova</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: FR3.T08.3 Paper Number: 2887</p> <p>Title: ESTIMATION OF HYPERSPECTRAL COVARIANCE MATRICES</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing</p> <p>Session: Advances in the Analysis of Hyperspectral Data</p> <p>Time: Friday, July 29, 13:20 - 15:00</p> <p>Authors: Avishai Ben-David, Charles Davidson</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: MOP.F.7 Paper Number: 2888</p> <p>Title: A HIGH PRECISION FPGA-BASED ACTIVE RADAR CALIBRATOR</p> <p>Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration</p> <p>Session: Polarimetric SAR I</p> <p>Time: Monday, July 25, 17:00 - 18:30</p> <p>Authors: Chih-Yuan Chu, Kun-Shan Chen</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TH3.T07.3 Paper Number: 2889</p> <p>Title: MONITORING LONG TERM VARIABILITY IN THE ATMOSPHERIC WATER VAPOUR CONTENT USING GROUND-BASED GPS RECEIVER NETWORKS</p> <p>Topic: Atmosphere: Others</p> <p>Session: Atmospheric Sensing Techniques II</p> |

- Time:** Thursday, July 28, 13:20 - 15:00
Authors: Tong Ning, Gunnar Elgered
- View**
Paper Code: TUP.J.4 **Paper Number:** 2891
Title: A Novel Approach for Spectral-Spatial Classification of Hyperspectral Data Based on SVM-MRF Method
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Advances in Earth Sensing and Applications I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Mahdi Khodadadzadeh, Roozbeh Rajabi, Hassan Ghassemian
- ADD**
- View**
Paper Code: TU1.T06.2 **Paper Number:** 2892
Title: SUBSURFACE TARGETS DETECTION WITH SHANNON ENTROPY
Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Methods
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Xiaolin Bian, Yun Shao, Huaze Gong, Fengli Zhang, Chou Xie
- ADD**
- View**
Paper Code: FR2.T09.4 **Paper Number:** 2895
Title: A NOVEL METHOD FOR MODELING COMPLEX 3D GEOLOGICAL BODY WITH STRATAL PINCH-OUT
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques III
Time: Friday, July 29, 10:20 - 12:00
Authors: Jiateng Guo, Yizhou Yang, Lixin Wu, Rongbing Zhang
- ADD**
- View**
Paper Code: MOP.K.9 **Paper Number:** 2896
Title: CONTRAST PYRAMID BASED IMAGE FUSION SCHEME FOR INFRARED IMAGE AND VISIBLE IMAGE
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Registration and Change Detection
Time: Monday, July 25, 17:00 - 18:30
Authors: Dongxu He, Yu Meng, Chengyi Wang
- ADD**
- View**
Paper Code: MOP.I.4 **Paper Number:** 2898
Title: ROTATION INVARIANT TEXTURE FEATURE ALGORITHMS FOR URBAN SETTLEMENT CLASSIFICATION
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Processing and Analysis I
Time: Monday, July 25, 17:00 - 18:30
Authors: Phumzile Khumalo, Frans Van Den Bergh, Jules Tapamo
- ADD**
- View**
Paper Code: TUP.V.1 **Paper Number:** 2900
Title: TECTONIC GEOMORPHOLOGY OF INDUS KOHISTAN SEISMIC ZONE (IKSZ) IN NORTHERN PAKISTAN
Topic: Environmental Applications: Geology and Solid Earth
Session: Geology and Solid Earth I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Faisal Shahzad, Richard Gloaguen
- ADD**
- View**
Paper Code: TUP.F.9 **Paper Number:** 2901
Title: FUSION OF HYPERSPECTRAL AND PANCHROMATIC IMAGES USING MULTIREOLUTION ANALYSIS AND NONLINEAR PCA BAND REDUCTION
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
- ADD**

Session: Methods and Efficient Implementations in Hyperspectral Imagery

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Giorgio Antonino Licciardi, Muhammad Murtaza Khan, Jocelyn Chanussot, Annick Montanvert, Laurent Condat, Christian Jutten

View

ADD

Paper Code: FR1.T08.1

Paper Number: 2902

Title: SMOS IMAGE RECONSTRUCTION WITH MISSING REAL DATA: IMPACT OF CORRELATORS AND RECEIVERS FAILURES

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Processing and Analysis III

Time: Friday, July 29, 08:20 - 10:00

Authors: Ali Khazaal, Eric Anterrieu, François Cabot

View

ADD

Paper Code: WE1.T03.2

Paper Number: 2906

Title: THE SOIL MOISTURE ACTIVE PASSIVE (SMAP) APPLICATIONS ACTIVITY

Topic: Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications

Session: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications I

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Molly Brown, Susan Moran, Vanessa Escobar, Dara Entekhabi, Peggy O'Neill, Eni Njoku

View

ADD

Paper Code: WE4.T02.5

Paper Number: 2910

Title: TanDEM-X: Pol-InSAR over Agricultural Areas

Topic: Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X

Session: Polarimetric Interferometry: Applications with Tandem-X II

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Irena Hajnsek, Konstantinos Papathanassiou

View

ADD

Paper Code: TUP.M.11

Paper Number: 2911

Title: AUTOMATIC DETECTION OF LANDSLIDE FEATURES WITH REMOTE SENSING TECHNIQUES: APPLICATION TO MADEIRA ISLAND

Topic: Land: Natural Disaster / Land Slide

Session: Remote Sensing of Land Deformation and Floods

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Cristina Lira, Maura Lousada, Ana Paula Falcão, Alexandre Gonçalves, Sandra Heleno, Magda Matias, António Jorge Sousa, Maria João Pereira, Pedro Pina, Rodrigo Oliveira, António Betâmio De Almeida

View

ADD

Paper Code: WE4.T02.1

Paper Number: 2912

Title: EXPLORING THE POTENTIAL OF POL-INSAR TECHNIQUES AT X-BAND FIRST RESULTS AND EXPERIMENTS FROM TANDEM-X

Topic: Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X

Session: Polarimetric Interferometry: Applications with Tandem-X II

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Konstantinos Papathanassiou, Florian Kugler, Irena Hajnsek

View

ADD

Paper Code: TU2.T06.3

Paper Number: 2914

Title: Subway tunnels identification through Cosmo-SkyMed PSInSAR analysis in Shanghai

Topic: Environmental Applications: Urban and Built Environment

Session: Urban Area Monitoring

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Zhiying Wang, Daniele Perissin, Hui Lin

ViewADD **Paper Code:** WE3.T03.5**Paper Number:** 2918**Title:** EVALUATION OF TRMM PRECIPITATION RADAR FOR ESTIMATES OF SURFACE RAINFALL RATE**Topic:** Atmosphere: Precipitation and Clouds**Session:** Tropical Rainfall Measuring Mission**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Liang Liao, Robert Meneghini**View**ADD **Paper Code:** FR1.T06.4**Paper Number:** 2919**Title:** SURFACE DISPLACEMENTS IN ACTIVE TECTONICS AREAS STUDIED BY PSI TECHNIQUES**Topic:** Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas**Session:** Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Salvatore Stramondo, Can Zulfikar, Mine Demircioglu, Evangelos Lagios, Vassilios Sakkas, Athanassios Ganas, Kostantinos Stamatopoulos, Michael Fouvelis, Issaak Parcharidis, Fabrizio Novali, Christian Bignami, Marco Chini**View**ADD **Paper Code:** TUP.C.9**Paper Number:** 2920**Title:** CROSS-TRACK SPARSE FLIGHT SIMULATION ANALYSIS FOR AIRBORNE SPARSE ARRAY DOWNWARD-LOOKING 3D IMAGING RADAR**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Dao-Jing Li, Xiu-Min Teng**View**ADD **Paper Code:** WEP.G.9**Paper Number:** 2921**Title:** REGISTRATION TECHNIQUES FOR MULTIMODAL IMAGES AND ITS APPLICATION**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** Advances in Analysis Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ryosuke Mashiko, Akira Iwasaki**View**ADD **Paper Code:** WE3.T06.4**Paper Number:** 2922**Title:** ANALYSIS OF TREND CHANGES OF GROUND DEFORMATION IN THE SELECTED MINING AREAS IN DABROWSKI COAL BASIN (SOUTH POLAND)**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth IV**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Stanislaw Porzycka, Andrzej Lesniak**View**ADD **Paper Code:** WEP.V.2**Paper Number:** 2924**Title:** MODELLING ASSESSMENT AND IMPROVEMENT IN WIRELESS SENSOR NETWORKS FOR IN-SITU LST MEASUREMENTS AS SUPPORT TO SATELLITE REMOTE SENSING**Topic:** Sensors and Platforms: Ground Based System**Session:** Ground Based System - Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Asaad Chahboun, Raissouni Naoufal, Ben Achhab Nizar, Lahraoua Mohamed, Azyat Abelilah

ViewADD **Paper Code:** WE1.T02.2**Paper Number:** 2926**Title:** TanDEM-X: Science Status and Scientific Experiments**Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Irena Hajsek, Gerhard Krieger, Konstantinos Papathanassiou, Stefan Baumgartner, Marc Rodriguez-Cassola, Pau Prats, Francesco Lopez Dekker**View**ADD **Paper Code:** TUP.N.8**Paper Number:** 2928**Title:** VALIDATION OF SMOS MEASUREMENTS OVER OCEAN AND IMPROVEMENT OF SEA SURFACE EMISSIVITY MODEL AT L BAND**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Xiaobin Yin, Jacqueline Boutin, Nicolas Martin, Paul Spurgeon**View**ADD **Paper Code:** MOP.Z.6**Paper Number:** 2929**Title:** HYPERSPECTRAL IMAGER SUITE (HISUI) -JAPANESE HYPER-MULTI SPECTRAL RADIOMETER-**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Akira Iwasaki, Nagamitsu Ohgi, Jun Tanii, Takahiro Kawashima, Hitomi Inada**View**ADD **Paper Code:** WE4.T01.5**Paper Number:** 2931**Title:** PERCEPTUAL GROUPING FOR PERSISTENT SCATTERERS IN URBAN HIGH-RESOLUTION SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Compressive Sensing and Dimensionality Reduction**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Alexander Schunert, Eckart Michaelsen, Uwe Sörge**View**ADD **Paper Code:** FR3.T06.5**Paper Number:** 2932**Title:** RECENT EXPERIENCES UTILIZING TERRASAR-X FOR THE MONITORING OF NATURAL DISASTERS IN DIFFERENT PARTS OF THE WORLD**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters I**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Yuki Okajima, Kazuo Yoshikawa, Takashi Shibayama**View**ADD **Paper Code:** MO3.T07.5**Paper Number:** 2933**Title:** MAPPING IMPERVIOUS SURFACES USING MESMA FROM SUPERRESOLUTION ENHANCED CHRIS/PROBA IMAGERY IN THE BRUSSELS CAPITAL REGION**Topic:** Invited Sessions: Superresolution and sub-pixel classification**Session:** Superresolution and Sub-Pixel Classification**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Luca Demarchi, Jianglin Ma, Jonathan Cheung-Wai Chan, Frank Canters**View****Paper Code:** MOP.N.4**Paper Number:** 2934**Title:** Linear Objects Impact On Grassland Degradation In The Typical Steppe Region Of China

ADD **Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Suying Li, Peter Verburg, Shihai Lv, Shangyu Gao, Jingle Wu

View

Paper Code: WEP.P.7**Paper Number:** 2935**Title:** APPLICATION OF CCD DATA OF HJ-1 SATELLITE IN PM10 EVALUATION IN SHENZHEN, CHINAADD **Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Sheng Zheng, Chunxiang Cao, Jinquan Cheng, Yongsheng Wu, Hao Zhang, Huicong Jia, Wei Ji, Min Xu, Mengxu Gao, Jian Zhao, Xiliang Ni, Wei Chen, Rong Tian, Cheng Liu, Xiaowen Li

View

Paper Code: FR4.T07.3**Paper Number:** 2936**Title:** OIL SPILL DETECTION USING COSMO-SKYMED OVER THE ADRIATIC SEA: THE OPERATIONAL POTENTIALADD **Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Michele Vespe, Guido Ferraro, Monica Posada, Harm Greidanus, Marko Perkovic

View

Paper Code: TU3.T10.5**Paper Number:** 2938**Title:** ESTIMATION OF WAVE SPECTRA WITH SWIM ON CFOSAT – ILLUSTRATION ON A REAL CASEADD **Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Céline Tison, Claire Manent, Thierry Amiot, Vivien Enjolras, Danièle Hauser, Laurent Rey, Patrick Castellan

View

Paper Code: TUP.K.5**Paper Number:** 2941**Title:** ESTIMATION OF SHRUB CANOPY COVER BASED ON A GEOMETRIC-OPTICAL MODEL USING HJ-1 DATAADD **Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wei Chen, Chunxiang Cao, Hao Zhang, Huicong Jia, Wei Ji, Min Xu, Mengxu Gao, Xiliang Ni, Jian Zhao, Sheng Zheng, Rong Tian, Cheng Liu

View

Paper Code: TUP.M.9**Paper Number:** 2943**Title:** OBJECT-BASED IMAGE ANALYSIS OF POST-TSUNAMI HIGH-RESOLUTION SATELLITE IMAGES FOR MAPPING THE IMPACT OF TSUNAMI DISASTERADD **Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shunichi Koshimura, Shintaro Kayaba, Hideomi Gokon

View

Paper Code: MOP.I.3**Paper Number:** 2947**Title:** AN IMPROVED ROAD AND BUILDING DETECTOR ON VHR IMAGESADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I

Time: Monday, July 25, 17:00 - 18:30**Authors:** Christophe Simler**View****ADD** **Paper Code:** WE4.T06.5**Paper Number:** 2948**Title:** SOIL THICKNESS ZONATION APPROACH USING LANDSAT ETM+, GEOLOGICAL MAPS, DEM DATA, AND FIELD INVESTIGATION**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth V**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Runqing Ye, Ruiqing Niu, Sahli Hichem, Qiying Jiang**View****ADD** **Paper Code:** TU4.T07.5**Paper Number:** 2949**Title:** EVOLUTION OF THE RAIN PROFILING ALGORITHM FOR THE TRMM PRECIPITATION RADAR**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Toshio Iguchi**View****ADD** **Paper Code:** TUP.P.3**Paper Number:** 2950**Title:** SEA STATE SENSING WITH SINGLE FREQUENCY GPS RECEIVER**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Songhua Y, Nengcheng C, Jianya G, Xunxie Z**View****ADD** **Paper Code:** TU3.T07.1**Paper Number:** 2951**Title:** SPACEBORNE MICROWAVE OBSERVATIONS OF RAIN 1972-1997**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Thomas Wilhelm, Alfred Chang**View****ADD** **Paper Code:** FR3.T02.2**Paper Number:** 2955**Title:** POTENTIAL & CHALLENGES OF POLARIMETRIC SAR INTERFEROMETRY TECHNIQUES FOR FOREST PARAMETER ESTIMATION IN THE CONTEXT OF THE BIOMASS MISSION**Topic:** Invited Sessions: Advances in the retrieval of forest biomass from P-band SAR data: The BIOMASS mission**Session:** Advances in the Retrieval of Forest Biomass from P-band SAR Data: The BIOMASS Mission**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Seung-Kuk Lee, Stefan Sauer, Florian Kugler, Irena Hajsek, Konstantinos Papathanassiou**View****ADD** **Paper Code:** WE2.T06.5**Paper Number:** 2957**Title:** MICROWAVE RADIATION ANOMALY OF WENCHUAN EARTHQUAKE AND ITS MECHANISM**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth III**Time:** Wednesday, July 27, 10:20 - 12:00

ViewADD **Authors:** Shanjun Liu, Yuntao Ma, Lixin Wu**Paper Code:** MOP.H.6**Paper Number:** 2958**Title:** A GEOMETRICAL RECTIFICATION ALGORITHM OF UAV REMOTE SENSING IMAGES BASED ON FLIGHT ATTITUDE PARAMETERS**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** High Resolution Optical Sensing II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yuxia Li, Zheng Li, Ling Tong, YangTian Yan, Dong Guo**View**ADD **Paper Code:** MOP.N.9**Paper Number:** 2961**Title:** CONTINENTAL SCALE LAND COVER CLASSIFICATION USING MODIS SURFACE REFLECTANCE PRODUCTS**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Haruhisa Shimoda, Kiyonari Fukue**View**ADD **Paper Code:** TU2.T02.3**Paper Number:** 2962**Title:** INVESTIGATION ON THE ORIENTATION AND STRUCTURE PARAMETERS OF CANOPY USING POLSAR OBSERVATIONS**Topic:** Invited Sessions: SAR Polarimetry: Theory and Applications**Session:** SAR Polarimetry: Theory and Applications II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Yanting Wang, Thomas Ainsworth, Jong-Sen Lee**View**ADD **Paper Code:** MOP.N.1**Paper Number:** 2963**Title:** MAPPING THE DISTRIBUTION OF CROFTON WEED (EUPATORIUM ADENOPHORUM SPRENG) IN SOUTHWEST OF CHINA USING TIME SERIES REMOTE SENSING DATA**Topic:** Land: Forests and Vegetation**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Ying Qu, Zhengqing Xiao, Gongqi Zhou, Xiaojia Liang, Xijia Li**View**ADD **Paper Code:** WEP.F.1**Paper Number:** 2964**Title:** AN AUTOMATIC METHOD FOR GENERATING CURVILINEAR GEOLOGICAL SECTION WITH STRATAL PINCH-OUT**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jiateng Guo, Rongbing Zhang, Lixin Wu, Yizhou Yang**View**ADD **Paper Code:** WE2.T07.2**Paper Number:** 2965**Title:** MODELING MELTING LAYER RADAR OBSERVATIONS AT GPM FREQUENCIES; COMPARISON TO MEASUREMENTS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Annakaisa von Lerber, Dmitri Moisseev, Jussi Leinonen, Jani Tyynelä, Venkatachalam Chandrasekar, Martti Hallikainen**View****Paper Code:** FR3.T09.5**Paper Number:** 2966

ADD **Title:** THE DEVELOPMENT OF CATASTROPHE EARTHQUAKE RISK ESTIMATION SYSTEM BASED ON GIS**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques IV**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Xiang Ding, Xiaoqing Wang, Long Wang, Youhua Zheng

View

ADD **Paper Code:** MO3.T08.3**Paper Number:** 2967**Title:** MONITORING HYDROLOGICAL VARIATIONS USING MULTISPECTRAL SPOT-5 DATA: REGIONAL CASE OF JALISCO IN MEXICO**Topic:** Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Ivan E. Villalon-Turrubiates

View

ADD **Paper Code:** TU4.T05.4**Paper Number:** 2969**Title:** THE POTENTIAL OF MULTI-TEMPORAL COSMO-SKYMED SAR IMAGES IN MONITORING SOIL AND VEGETATION**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Emanuele Santi, Simone Pettinato, Simonetta Paloscia, Marco Brogioni, Giacomo Fontanelli, Paolo Pampaloni, Giovanni Macelloni, Francesco Montomoli

View

ADD **Paper Code:** WE3.T03.2**Paper Number:** 2972**Title:** MONITORING THE METEOROLOGICAL DROUGHT IN THE MIDDLE REACHES OF HEIHE RIVER BASIN BASED ON TRMM PRECIPITATION DATA**Topic:** Atmosphere: Precipitation and Clouds**Session:** Tropical Rainfall Measuring Mission**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Yao Wang, Chuanyan Zhao, Zhonglin Xu, Chao Wang, Zhongren Nan

View

ADD **Paper Code:** WE2.T09.4**Paper Number:** 2973**Title:** META-OPTIMIZATION OF THE EXTENDED KALMAN FILTER'S PARAMETERS FOR IMPROVED FEATURE EXTRACTION ON HYPER-TEMPORAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** DEM and Feature Extraction**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Brian Salmon, Waldo Kleynhans, Frans van den Bergh, Jan C. Olivier, Willem Marais, Konrad Wessels

View

ADD **Paper Code:** TH3.T05.3**Paper Number:** 2979**Title:** ATMOSPHERIC CORRECTION ALGORITHM FOR THE GOCI**Topic:** Invited Sessions: GOCI (Geostationary Ocean Color Imager) Mission operations and applications**Session:** GOCI (Geostationary Ocean Color Imager) Mission and Applications**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Jae-Hyun Ahn, Joo-Hyung Ryu, Yu-Hwan Ahn, Im Sang Oh

View

ADD **Paper Code:** TUP.J.5**Paper Number:** 2980**Title:** Intra-Pulse Doppler Effect and Compensation for Stepped Frequency SAR**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing

- View**
ADD
- Session:** Advances in Earth Sensing and Applications I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yanghuan Li, Qian Song, Pengyu Wang, Tian Jin, Zhimin Zhou
- Paper Code:** MO3.T08.2 **Paper Number:** 2982
Title: ARCHAEOLOGICAL LAND USE CHARACTERIZATION USING MULTISPECTRAL REMOTE SENSING DATA
Topic: Invited Sessions: Emerging Trends and Challenges in Remote Sensing Data Processing
Session: Emerging Trends and Challenges in Remote Sensing Data Processing I
Time: Monday, July 25, 13:20 - 15:00
Authors: Ivan E. Villalon-Turrubiates, Maria J. Llovera-Torres
- View**
ADD
- Paper Code:** TH3.T07.1 **Paper Number:** 2983
Title: A THERMAL INDEX FROM MODIS DATA FOR DUST DETECTION
Topic: Atmosphere: Others
Session: Atmospheric Sensing Techniques II
Time: Thursday, July 28, 13:20 - 15:00
Authors: Yang Liu, Ronggao Liu
- View**
ADD
- Paper Code:** WEP.W.2 **Paper Number:** 2985
Title: Design of GPU-Based Platform for LDPC Decoder
Topic: Sensors and Platforms: Others
Session: Missions and Instruments I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Cheng-Chun Chang, Min-Yu Huang, Yang-Lang Chang
- View**
ADD
- Paper Code:** TH2.T03.4 **Paper Number:** 2986
Title: DEMONSTRATOR TEST RESULTS FOR THE GEO ATMOSPHERIC SOUNDER (GAS)
Topic: Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers
Session: Interferometric Synthetic Aperture Microwave Radiometers II
Time: Thursday, July 28, 10:20 - 12:00
Authors: Jacob Christensen, Anders Carlström, Johan Embertsen, Andreas Coleander, Peter de Maagt
- View**
ADD
- Paper Code:** TH4.T02.4 **Paper Number:** 2987
Title: TANDEM-L: ESTIMATING VERTICAL FOREST STRUCTURE BY MEANS OF MULTI-BASELINE POL-INSAR AT L-BAND FOR GLOBAL BIOMASS MAPPING
Topic: Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications
Session: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications II
Time: Thursday, July 28, 15:20 - 17:00
Authors: Pardini Matteo, Astor Torano Caicoya, Florian Kugler, Konstantinos Papathanassiou
- View**
ADD
- Paper Code:** TUP.P.4 **Paper Number:** 2988
Title: THE MEAN ECHO MODEL AND DATA PROCESS OF SAR ALTIMETER
Topic: Oceans: Ocean Altimetry
Session: Ocean Altimetry I
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Shuang-Bao Yang, He-Guang Liu, Ke Xu, Xi-Yu Xu

ViewADD **Paper Code:** FR2.T06.4**Paper Number:** 2989**Title:** COMBINED USE OF ELECTROMAGNETIC SCATTERING MODELS, FUZZY LOGIC AND MATHEMATICAL MORPHOLOGY FOR FLOOD MAPPING USING COSMO-SKYMED DATA**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing for Natural Disasters Monitoring and Management**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Luca Pulvirenti, Marco Chini, Nazzareno Pierdicca, Leila Guerriero**View**ADD **Paper Code:** WEP.H.7**Paper Number:** 2990**Title:** AUTOMATIC EXTRACTION OF SHADOW AND NON-SHADOW LANDSLIDE AREA FROM ADS-40 IMAGE BY STRATIFIED CLASSIFICATION**Topic:** Land: Natural Disaster / Land Slide**Session:** Advances in Earth Sensing and Applications II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yi-Ta Hsieh, Shou-Tsung Wu, Chen-Sung Liao, Yau-Guang Yui, Jan-Chang Chen, Yuh-Lung Chung**View**ADD **Paper Code:** FR1.T02.1**Paper Number:** 2992**Title:** STEPS TOWARDS THE PREPARATION OF A WAVEMILL MISSION**Topic:** Invited Sessions: Advanced SAR Concepts and Mission**Session:** Advanced SAR Concepts and Mission**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Christopher Buck, Miguel Aguirre, Craig Donlon, Daniele Petrolati, Salvatore D'Addio**View**ADD **Paper Code:** TUP.U.4**Paper Number:** 3002**Title:** METHODS FOR EXTRACTION OF CONTAMINATED AREA USING MULTISPECTRAL REMOTE SENSING DATA IN BAIYIN CITY, NORTHWESTERN CHINA**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yao Wang, Chuanyan Zhao, Zhongren Nan**View**ADD **Paper Code:** WEP.B.2**Paper Number:** 3003**Title:** AN EFFICIENT VISUAL SALIENCY BASED TARGET DETECTION ALGORITHM FOR SAR IMAGE**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Wei Zhou, Jian Guan**View**ADD **Paper Code:** TUP.R.4**Paper Number:** 3004**Title:** TIDAL CURRENT CONVERGENCE ZONES APPEARED ON SAR IMAGES**Topic:** Oceans: Others**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Taerim Kim, Jongjib Park, Hoonyol Lee**View**ADD **Paper Code:** WEP.K.1**Paper Number:** 3005**Title:** TOWARDS AN OPERATIONAL PROCEDURE TO MAP SOIL MOISTURE USING SAR: RESULTS OF A SEVEN-YEAR-EXPERIMENT OVER AN AGRICULTURAL AREA**Topic:** Land: Soils and Soil Moisture

Session: Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Nazzareno Pierdicca, Luca Pulvirenti, Christian Bignami, Francesca Ticconi**View****ADD** **Paper Code:** TU4.T06.5**Paper Number:** 3011**Title:** OBSERVATIONS OF COASTAL CHANGES ON WESTERN TAIWAN USING A 10 YEARS TIME SERIES ERS SAR IMAGES**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Hsiu-Wen Wang, Kun-Shan Chen, Chih-Tien Wang**View****ADD** **Paper Code:** TUP.P.5**Paper Number:** 3012**Title:** THE CORRELATION AND PRECISION PERFORMANCE OF SAR ALTIMETER MEAN ECHO**Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Shuang-Bao Yang, He-Guang Liu, Ke Xu, Xi-Yu Xu**View****ADD** **Paper Code:** TU4.T02.4**Paper Number:** 3014**Title:** CORRECTION OF IONOSPHERIC DISTORTIONS IN LOW FREQUENCY INTERFEROMETRIC SAR DATA**Topic:** Invited Sessions: Ionospheric Effects on SAR, PolSAR and InSAR**Session:** Ionospheric Effects on SAR, PolSAR and InSAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Jun Su Kim, Andreas Danklmayer, Konstantinos Papathanassiou**View****ADD** **Paper Code:** TUP.X.2**Paper Number:** 3017**Title:** MICROWAVE RADIOMETER NONLINEARITY CORRECTION USING CONSTANT DEFLECTION METHOD**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jinzheng Peng, Jeffrey Piepmeier, Priscilla Mohammed**View****ADD** **Paper Code:** MOP.Q.10**Paper Number:** 3019**Title:** A LONG-TERM GLOBAL LEAF AREA INDEX DATASET (1981-2009) FROM AVHRR AND MODIS DATA**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yang Liu, Ronggao Liu**View****ADD** **Paper Code:** TUP.M.5**Paper Number:** 3020**Title:** CHANGE DETECTION METHOD FOR LANDSLIDE AREA USING RGB COLOR COMPOSITE IMAGE OF SRTM AND ALOS/PALSAR INSAR DEM: A CASE STUDY OF THE IWATE-MIYAGI NAIRIKU EARTHQUAKE IN 2008**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Tomohito Asaka, Keishi Iwashita, Katsuteru Kudou, Sadayoshi Aoyama, Yoshiyuki Yamamoto

ViewADD **Paper Code:** TH3.T04.3**Paper Number:** 3021**Title:** IMPLEMENTING HEMISPHERICAL SNOW WATER EQUIVALENT PRODUCT ASSIMILATING WEATHER STATION OBSERVATIONS AND SPACEBORNE MICROWAVE DATA**Topic:** Land: Land Ice and Snow**Session:** Passive Microwave of Snow and Its Application**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Matias Takala, Kari Luojus, Jouni Pulliainen, Chris Derksen, Juha Lemmetyinen, Juha-Petri Kärnä, Jarkko Koskinen, Bojan Bojkov**View**ADD **Paper Code:** WEP.A.2**Paper Number:** 3022**Title:** TARGET IDENTIFICATION BY A PASSIVE BISTATIC MONOCHROMATIC WAVE RADAR**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Mojtaba Amiri-Sazi, Franck Daout, Francoise Schmitt**View**ADD **Paper Code:** TH1.T08.1**Paper Number:** 3024**Title:** COMPARISON OF SHIP DETECTION PERFORMANCE BASED ON THE DEGREE OF POLARIZATION IN HYBRID/COMPACT AND LINEAR DUAL-POL SAR IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Reza Shirvany, Marie Chabert, Jean-Yves Tourneret**View**ADD **Paper Code:** WEP.Q.8**Paper Number:** 3025**Title:** DETERMINATION OF PADDY FIELD IN THE WORLD USING TERRA/ASTER DATA**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Genya Saito, Chinatsu Yonezawa, Aya Kitamura, Shigeo Ogawa, Yukio Kosugi, Masatane Kato**View**ADD **Paper Code:** TUP.T.6**Paper Number:** 3027**Title:** DETERMINATION THE NITROGEN STATUS OF WETLANDS USING EMERGENT MACROPHYTES LEAF SPECTRAL REFLECTANCE**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ke Liu, Wenji Zhao, Xiaoyu Guo, Yihong Wang, Qian Miao**View**ADD **Paper Code:** TU1.T05.4**Paper Number:** 3028**Title:** SVM BINARY FEATURE SELECTION FOR POLARIMETRIC SAR CLASSIFICATION OVER TROPICAL FOREST ENVIRONMENT**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Land Use and Land Cover Change V**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Cédric Lardeux, David Niamien, Pierre-Louis Frison, Jean-Baptiste Routier, Eric Pottier, Jean-Paul Rudant**View****Paper Code:** TU2.T02.4**Paper Number:** 3029

ADD

Title: COHERENT SCATTERERS DETECTION: APPLICATION OVER GLACIER TERRAIN USING TERRASAR-X TIME SERIES DATA

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: SAR Polarimetry: Theory and Applications II

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Maria J. Sanjuan-Ferrer, Irena Hajnsek, Konstantinos Papathanassiou

View

ADD

Paper Code: TH2.T03.3

Paper Number: 3030

Title: THE GEOSTATIONARY INTERFEROMETRIC MICROWAVE SOUNDER (GIMS): INSTRUMENT OVERVIEW AND RECENT PROGRESS

Topic: Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers

Session: Interferometric Synthetic Aperture Microwave Radiometers II

Time: Thursday, July 28, 10:20 - 12:00

Authors: Hao Liu, Ji Wu, Shengwei Zhang, Jingye Yan, Lijie Niu, Cheng Zhang, Weiyang Sun, Huiling Li, Bin Li

View

ADD

Paper Code: TU1.T06.5

Paper Number: 3032

Title: THE BGR-P30 AIRBORNE GPR SYSTEM: SYSTEM PARAMETERS, CALIBRATION, AND RESULTS FROM FIELD MEASUREMENTS

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Methods

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Norbert Blindow, Christina Salat, Volker Gundelach, Ulrich Buschmann

View

ADD

Paper Code: MOP.O.4

Paper Number: 3036

Title: SPECTRAL CLUSTERING BASED UNSUPERVISED CHANGE DETECTION IN SAR IMAGES

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change IV

Time: Monday, July 25, 17:00 - 18:30

Authors: Xiangrong Zhang, Zemin Li, Biao Hou, Licheng Jiao

View

ADD

Paper Code: TUP.V.7

Paper Number: 3037

Title: A NEW METHOD TO EXTRACT AND ANALYZE ABNORMAL PHENOMENON OF EARTHQUAKE FROM REMOTE SENSING INFORMATION

Topic: Environmental Applications: Geology and Solid Earth

Session: Geology and Solid Earth I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Yuntao Ma, Shanjun Liu, Lixin Wu, Baodong Ma

View

ADD

Paper Code: WE1.T08.4

Paper Number: 3038

Title: Band Selection for Hyperspectral Images Based on Impurity Function

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Feature Extraction and Band Selection in Hyperspectral Imagery

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Yang-Lang Chang, Bin-Feng Shu, Tung-Ju Hsieh, Chih-Yuan Chu, Jyh-Perng Fang

View

ADD

Paper Code: TU2.T05.4

Paper Number: 3041

Title: EXPLOITING FULLWAVEFORM LIDAR SIGNALS TO ESTIMATE TIMBER VOLUME AND ABOVE-GROUND BIOMASS OF INDIVIDUAL TREES

Topic: Land: Forests and Vegetation

Session: Vegetation Structure and Inventory I

Time: Tuesday, July 26, 10:20 - 12:00

[View](#)ADD **Authors:** Tristan Allouis, Sylvie Durrieu, Cédric Véga, Pierre Couteron**Paper Code:** TUP.S.10**Paper Number:** 3042**Title:** IMPROVING THE SUPPORT VECTOR MACHINE-BASED METHOD TO MAP URBAN LAND OF CHINA USING DMSP/OLS AND SPOT VGT DATA**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yang Yang, Chunyang He, Shiqiang Du[View](#)ADD **Paper Code:** WEP.I.4**Paper Number:** 3043**Title:** USE OF PASSIVE MICROWAVE SIGNATURES TO DETECT AND MONITOR FLOODING EVENTS IN SUNDARBAN DELTA.**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Raja Chakraborty, Rachid Rahmoune, Paolo Ferrazzoli[View](#)ADD **Paper Code:** FR2.T04.4**Paper Number:** 3044**Title:** CERES FLIGHT MODEL 5 ON NPP: PRE-LAUNCH PERFORMANCE AND SENSOR DATA RECORD VALIDATION**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments II**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Kory Priestley, G. Lou Smith, Susan Thomas, Herbert Bitting[View](#)ADD **Paper Code:** MOP.Z.7**Paper Number:** 3048**Title:** Evaluation of SMOS data over Canadian agricultural area using modeling and in-situ measurements**Topic:** Sensors and Platforms: Passive Optical and Hyperspectral Sensors**Session:** Passive Optical and Hyperspectral Sensors II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Imen Gherboudj, Ramata Magagi, Kalifa Goita[View](#)ADD **Paper Code:** MO4.T04.3**Paper Number:** 3051**Title:** VALIDATION OF THE NPP VIIRS ACTIVE FIRE PRODUCT**Topic:** Land: Forests and Vegetation**Session:** US Joint Polar Satellite System II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Ivan Csiszar, Wilfrid Schroeder, Louis Giglio, Evan Ellicott, Christopher Justice[View](#)ADD **Paper Code:** FR1.T08.2**Paper Number:** 3052**Title:** Bivariate Pearson Distributions for Remote Sensing Images**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis III**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Marie Chabert, Jean-Yves Tourneret[View](#)ADD **Paper Code:** TUP.O.8**Paper Number:** 3053**Title:** A COMPARISON OF VARIOUS EQUATORIAL PACIFIC SURFACE WIND PRODUCTS**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30

[View](#)ADD

Authors: Ge Peng, Huai-Min Zhang, Helmut Frank, Jean-Raymond Bidlot, Masakazu Higaki, William Hankins

Paper Code: TUP.F.10

Paper Number: 3055

Title: Relation between principal components and endmembers in hyperspectral images

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Methods and Efficient Implementations in Hyperspectral Imagery

Time: Tuesday, July 26, 17:00 - 18:30

Authors: David Blanco, Manuel Sanchez-Castillo, María C. Carrión, Isabel M. Tienda

[View](#)ADD

Paper Code: MOP.C.4

Paper Number: 3059

Title: Concurrent Subbands Mode for Multichannel SAR Imaging

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High Resolution and Multi-Channel SAR

Time: Monday, July 25, 17:00 - 18:30

Authors: Huifang Zheng, Yunkai Deng, Robert Wang, Qian Chen

[View](#)ADD

Paper Code: MOP.N.3

Paper Number: 3060

Title: TENDENCY OF CHANGES OF LAND COVER OF KAZAKHSTAN IN 2000-2010

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change III

Time: Monday, July 25, 17:00 - 18:30

Authors: Lev Spivak, Irina Vitkovskaya, Madina Batyrbayeva, Raushan Bokusheva

[View](#)ADD

Paper Code: MOP.S.4

Paper Number: 3061

Title: THERMAL REMOTE SENSING APPLICATIONS TO SEISMOLOGY AND EARTHQUAKE PRECURSORS: THE CASE OF L'AQUILA 2009.

Topic: Land: Natural Disaster / Land Slide

Session: Land Applications I

Time: Monday, July 25, 17:00 - 18:30

Authors: Luca Piroddi, Gaetano Ranieri

[View](#)ADD

Paper Code: TU1.T10.2

Paper Number: 3062

Title: A Novel Ocean Vector Winds Retrieval Technique for Tropical Cyclones

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents I

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Peth Laupattarakasem, Suleiman Alsweiss, W. Linwood Jones, Christopher Hennon

[View](#)ADD

Paper Code: TH4.T08.4

Paper Number: 3063

Title: A New Subspace Discriminant Analysis Approach for Supervised Hyperspectral Image Classification

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Machine Learning for the Classification of Hyperspectral Data

Time: Thursday, July 28, 15:20 - 17:00

Authors: Jun Li, Jose Bioucas-Dias, Antonio Plaza

[View](#)ADD

Paper Code: TUP.S.5

Paper Number: 3066

Title: DETECTING SUBSIDENCE-INDUCED FAULTING IN MEXICAN URBAN AREAS BY MEANS OF PERSISTENT SCATTERER INTERFEROMETRY AND SUBSIDENCE HORIZONTAL GRADIENT MAPPING

Topic: Environmental Applications: Urban and Built Environment

Session: Urban Remote Sensing

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Francesca Cigna, Enrique Cabral-Cano, Batuhan Osmanoglu, Timothy Dixon, Shimon Wdowinski

View

ADD

Paper Code: TH3.T09.5

Paper Number: 3072

Title: GEOSCIENCE DATA CURATION USING A DIGITAL OBJECT MODEL AND OPEN-SOURCE FRAMEWORKS: PROVENANCE APPLICATIONS

Topic: Invited Sessions: Provenance in Geoscience Data

Session: Provenance in Geoscience Data

Time: Thursday, July 28, 13:20 - 15:00

Authors: Jerry Pan, Christopher Lenhardt, Bruce Wilson, Giri Palanisamy, Robert Cook, Biva Shrestha

View

ADD

Paper Code: TH4.T05.5

Paper Number: 3073

Title: LABORATORY PANEL AND RADIOMETER CALIBRATION

Topic: Invited Sessions: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign

Session: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign

Time: Thursday, July 28, 15:20 - 17:00

Authors: Andrew Deadman, Irina Behnert, Nigel Fox, Derek Griffith

View

ADD

Paper Code: TU2.T03.4

Paper Number: 3076

Title: A BAYESIAN METHODOLOGY FOR SOIL PARAMETERS RETRIEVAL FROM SAR IMAGES

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Remote Sensing II

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Matias Barber, Marcela Piscitelli, Pablo Perna, Cintia Bruscantinni, Francisco Grings, Julio Cesar Jacobo Berles, Haydee Karszenbaum

View

ADD

Paper Code: TH3.T10.5

Paper Number: 3077

Title: A CEOS COMMUNITY CATALOG FOR EARTH OBSERVATION DATA

Topic: Invited Sessions: International Developments and Collaborations in Earth Observation Data Systems

Session: International Developments and Collaborations in Earth Observation Data Systems

Time: Thursday, July 28, 13:20 - 15:00

Authors: Kenneth McDonald, Martin Yapur, Yonsook Enloe, Lyndon Oleson, Yuqi Bai, Liping Di

View

ADD

Paper Code: WEP.U.5

Paper Number: 3079

Title: UAV-BASED REMOTE SENSING PAYLOAD PRE-LAUNCH CALIBRATION AND VALIDATION SYSTEM

Topic: Sensors and Platforms: UAV and Airborne Platforms

Session: Remote Sensing using Unmanned Aerial Vehicles

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Chaoliang Wang, Chuanrong Li, Lingli Tang, Jing Wang

View

ADD

Paper Code: WE4.T05.5

Paper Number: 3080

Title: MAPPING NATURA 2000 HEATHLAND IN BELGIUM – AN EVALUATION OF ENSEMBLE CLASSIFIERS FOR SPACEBORNE ANGULAR CHRIS/PROBA IMAGERY

Topic: Land: Forests and Vegetation**Session:** Agricultural Applications**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Jonathan Chan, Pieter Beckers, Frank Canters, Toon Spanhove, Jeroen Vanden Borre, Desire Paelinckx**View**ADD **Paper Code:** MOP.Q.4**Paper Number:** 3082**Title:** SPATIAL FILTERING ANALYSIS FOR QUICK DROUGHT ASSESSMENT USING MODIS IMAGES TO DETECT DROUGHT AFFECTED AREAS**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Meng-Lung Lin, Fujun Sun, Qiubing Wang, Cheng-Wu Chen, Yi-Shiang Shiu, Tzu-How Chu**View**ADD **Paper Code:** FR1.T06.3**Paper Number:** 3084**Title:** COSEISMIC DISPLACEMENT MEASUREMENT OF THE 2010 EL MAYOR, MEXICO EARTHQUAKE BY SUBPIXEL CORRELATION FROM OPTICAL SATELLITE IMAGES**Topic:** Land: Natural Disaster / Land Slide**Session:** Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Masashi Matsuoka, Shinsuke Kodama**View**ADD **Paper Code:** MOP.O.8**Paper Number:** 3086**Title:** CHANGE DETECTION BY MULTI-SENSOR IMAGES USING WEIGHTS OF EVIDENCE MODEL**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change IV**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Peijun Li, Benqin Song, Haiqing Xu**View**ADD **Paper Code:** WEP.A.5**Paper Number:** 3092**Title:** MULTISTATIC SAR EXPLORATION USING MULTI-CHANNEL RECEIVING SYSTEM**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yunkai Deng, Robert Wang, Zhimin Zhang, Jixiang Hou, Otmar Loffeld, Holger Nies**View**ADD **Paper Code:** TU4.T05.3**Paper Number:** 3095**Title:** BIOSAR 2010 – A SAR CAMPAIGN IN SUPPORT TO THE BIOMASS MISSION**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Lars M. Ulander, Anders Gustavsson, Pascale Dubois-Fernandez, Xavier Dupuis, Johan Fransson, Johan Holmgren, Jörgen Wallerman, Leif E. B. Eriksson, Gustaf Sandberg, Maciej Soja**View****Paper Code:** TUP.J.6**Paper Number:** 3096**Title:** DUAL-ASPECT GEOMETRIC AND RADIOMETRIC TERRAIN CORRECTION METHOD FOR HIGH-RESOLUTION SAR DATA

ADD **Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Guojun Wang, Wan Zi, Chou Xie, Fengli Zhang

View

Paper Code: WEP.O.7**Paper Number:** 3097**Title:** GEOPHYSICAL INFORMATION CONTENT SENSITIVITY TO ADVANCED SOUNDER PROPERTIESADD **Topic:** Atmosphere: Atmospheric Sounding**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Allen Larar, Daniel Zhou, Xu Liu

View

Paper Code: WE3.T10.4**Paper Number:** 3100**Title:** VALIDATION OF RADIOMETRIC MODELS AND SIMULATED KARIN/SWOT DATA BASED ON GROUND AND AIRBORNE ACQUISITIONSADD **Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Roger Fjørtoft, Jean-Claude Lalaurie, Nadine Pourthié, Christine Lion, Jean-Marc Gaudin, Alain Mallet, Jean-François Nouvel, Pierre Borderies, Pascal Kosuth, Christian Ruiz

View

Paper Code: FR2.T02.5**Paper Number:** 3101**Title:** A SIMULATION STUDY OF TOPOGRAPHIC EFFECTS ON POLSAR CLASSIFICATION OF FORESTS AND CROPSADD **Topic:** Invited Sessions: Mitigating Terrain Effects on PolSAR Classification**Session:** Mitigating Terrain Effects on PolSAR Classification**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Thomas Ainsworth, Mark Williams

View

Paper Code: WEP.X.7**Paper Number:** 3102**Title:** INTRODUCTION OF A TOOL FOR BRDF MODELING AND VISUALIZATION NAMED V_AMBRALSADD **Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management, Dissemination, Education and Policy**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xingying Huang, Ziti Jiao, Yadong Dong, Hu Zhang, Xiaowen Li

View

Paper Code: FR2.T07.3**Paper Number:** 3104**Title:** CHARACTERIZATION AND EVALUATION OF NPP VIIRS AEROSOL EDR PERFORMANCE BASED UPON PRELAUNCH ANALYSISADD **Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** N. Christina Hsu, Istvan Laszlo, Jingfeng Huang

View

Paper Code: MOP.S.2**Paper Number:** 3105**Title:** REMOTE SENSING OF LAND SURFACE DYNAMICS ALONG THE APPALACHIAN TRAILADD **Topic:** Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions

- View**
ADD
- Session:** Land Applications I
Time: Monday, July 25, 17:00 - 18:30
Authors: Yeqiao Wang, Jianjun Zhao, Hongyan Zhang
- Paper Code:** MOP.C.6 **Paper Number:** 3106
Title: Building Edge Detection from SAR Complex Data
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: High Resolution and Multi-Channel SAR
Time: Monday, July 25, 17:00 - 18:30
Authors: Fabio Baselice, Giampaolo Ferraioli, Alessandro Grassia, Vito Pascazio
- View**
ADD
- Paper Code:** TH2.T01.1 **Paper Number:** 3110
Title: SAR CCD SIGNATURE BASED QUALITY EVALUATION
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: SAR/InSAR Image Extraction and Improvement Techniques
Time: Thursday, July 28, 10:20 - 12:00
Authors: Rhonda Phillips
- View**
ADD
- Paper Code:** WEPL.3 **Paper Number:** 3111
Title: COMPARISON OF ASTER GDEM AND SRTM DEM IN DERIVING THE THICKNESS CHANGE OF SMALL DONGKEMADI GLACIER ON QINGHAI-TIBETAN PLATEAU
Topic: Land: Land Ice and Snow
Session: Active Microwave and Optical Remote Sensing of Snow and Ice
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Qiang Xing, Zhen Li, Jianmin Zhou, Ping Zhang
- View**
ADD
- Paper Code:** TUP.D.8 **Paper Number:** 3112
Title: SUB-PIXEL MAPPING ALGORITHM BASED ON ADAPTIVE DIFFERENTIAL EVOLUTION FOR REMOTE SENSING IMAGERY
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Classification of Hyperspectral Data
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yanfei Zhong, Liangpei Zhang
- View**
ADD
- Paper Code:** TUP.N.9 **Paper Number:** 3113
Title: A comparison of satellite-derived sea surface temperature front using two edge detection methods
Topic: Oceans: Ocean Temperature and Salinity
Session: Ocean Biology (Color) and Water Quality II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yi Chang, Peter Cornillon
- View**
ADD
- Paper Code:** FR4.T05.1 **Paper Number:** 3115
Title: GNSS REFLECTIONS FROM BARE AND VEGETATED SOILS: EXPERIMENTAL VALIDATION OF AN END-TO-END SIMULATOR
Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling
Session: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology II
Time: Friday, July 29, 15:20 - 17:00
Authors: Nazzareno Pierdicca, Leila Guerriero, Roberto Giusto, Marco Brogioni, Alejandro Egido, Nicolas Floury

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|---|--|
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TH1.T02.4 Paper Number: 3116</p> <p>Title: RADARSAT-2 GOVERNMENT OF CANADA DATA UTILIZATION</p> <p>Topic: Invited Sessions: RADARSAT</p> <p>Session: RADARSAT I</p> <p>Time: Thursday, July 28, 08:20 - 10:00</p> <p>Authors: Daniel De Lisle</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TU4.T05.2 Paper Number: 3117</p> <p>Title: DETECTION OF WIND-THROWN TREES IN VHF/UHF SAR IMAGES</p> <p>Topic: Land: Forests and Vegetation</p> <p>Session: SAR/Lidar Sensing I</p> <p>Time: Tuesday, July 26, 15:20 - 17:00</p> <p>Authors: Anders Gustavsson, Johan Fransson, Lars M. Ulander</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: FR3.T06.3 Paper Number: 3118</p> <p>Title: RELATION BETWEEN ROCK FAILURE MICROWAVE SIGNALS DETECTED BY AMSR-E AND A DISTRIBUTION OF RUPTURES GENERATED BY SEISMIC ACTIVITY</p> <p>Topic: Land: Natural Disaster / Land Slide</p> <p>Session: Remote Sensing of Natural Hazards and Disasters I</p> <p>Time: Friday, July 29, 13:20 - 15:00</p> <p>Authors: Takashi Maeda, Tadashi Takano</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TU1.T08.1 Paper Number: 3123</p> <p>Title: An Overview on Hyperspectral Unmixing: Geometrical, Statistical, and Sparse Regression based Approaches</p> <p>Topic: Invited Sessions: Spectral Unmixing of Hyperspectral Data</p> <p>Session: Spectral Unmixing of Hyperspectral Data I</p> <p>Time: Tuesday, July 26, 08:20 - 10:00</p> <p>Authors: Jose Bioucas-Dias, Antonio Plaza</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: WEP.A.6 Paper Number: 3124</p> <p>Title: POTENTIAL APPLICATIONS OF HYBRID BI- AND MULTI-STATIC SAR BASED ON GEOSYNCHRONOUS ORBIT ILLUMINATOR</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Bistatic SAR</p> <p>Session: Bistatic SAR I</p> <p>Time: Wednesday, July 27, 17:00 - 18:30</p> <p>Authors: Yunkai Deng, Robert Wang, Haisheng Xu, Yue Liu, Otmar Loffeld, Holger Nies</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: WEP.C.6 Paper Number: 3126</p> <p>Title: A PARTIALLY SUPERVISED CLASSIFICATION ALGORITHM WITH SOFT CLASSIFICATION OUTPUT</p> <p>Topic: Advances in Analysis Techniques (Theoretical): Image Processing</p> <p>Session: Classification I</p> <p>Time: Wednesday, July 27, 17:00 - 18:30</p> <p>Authors: Rhonda Phillips, Layne Watson, Randolph Wynne</p> |
| <div style="border: 1px solid #ccc; background-color: #f0f0f0; padding: 5px; text-align: center; margin-bottom: 5px;">View</div> <div style="text-align: center;">ADD <input type="checkbox"/></div> | <p>Paper Code: TH4.T03.5 Paper Number: 3127</p> <p>Title: SMOS in flight system performances assessment after one year on orbit.</p> <p>Topic: Sensors and Platforms: Radiometer Instruments and Calibration</p> <p>Session: Calibration Techniques in Microwave Radiometry</p> <p>Time: Thursday, July 28, 15:20 - 17:00</p> <p>Authors: François Cabot, Ahmad Albitar, Philippe Richaume, Yann H. Kerr</p> |

[View](#)ADD **Paper Code:** MOP.R.6**Paper Number:** 3129**Title:** FLOOD MONITORING AND ANALYSIS OVER THE MIDDLE REACHES OF YANGTZE RIVER BASIN USING MODIS TIME-SERIES IMAGERY**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Bin Li, Qin Yan, Li Zhang[View](#)ADD **Paper Code:** TU1.T03.1**Paper Number:** 3130**Title:** SOIL MOISTURE RETRIEVAL UNDER VEGETATION USING DUAL POLARIZED PALSAR DATA**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Christian Koyama, Karl Schneider[View](#)ADD **Paper Code:** TH1.T05.5**Paper Number:** 3132**Title:** A LAND COVER MAP OF AFRICA AT 100 METERS RESOLUTION USING A MOSAIC OF ALOS PALSAR DUAL-POLARIZATION DATA: PRELIMINARY DEVELOPMENTS**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing III**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Alexandre Bouvet, Gianfranco De Grandi[View](#)ADD **Paper Code:** TU3.T06.5**Paper Number:** 3138**Title:** THE EFFECTS OF VIEWING- AND ILLUMINATION GEOMETRY ON SETTLEMENT TYPE CLASSIFICATION OF QUICKBIRD IMAGES**Topic:** Environmental Applications: Urban and Built Environment**Session:** VHR Urban Remote Sensing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Frans van den Bergh[View](#)ADD **Paper Code:** FR4.T06.4**Paper Number:** 3139**Title:** THE MERAPI VOLCANO 2010 ERUPTION: A CASE STUDY FOR MIA-VITA EUROPEAN PROJECT**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Christian Bignami[View](#)ADD **Paper Code:** WE1.T10.1**Paper Number:** 3140**Title:** SEA SURFACE SALINITY AS MEASURED BY SMOS AND BY SURFACE AUTONOMOUS DRIFTERS**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Salinity**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Jacqueline Boutin, Gilles Reverdin, Nicolas Martin, Simon Morrisset, Xiaobbin Yin, Antonio Lourenco, Fabienne Gaillard, Jean Rolland, Jordi Font, Christophe Maes, Pierre Blouch[View](#)ADD **Paper Code:** WEP.K.2**Paper Number:** 3142**Title:** Considerations for derivation and use of soil moisture data from active microwave satellites at high latitudes**Topic:** Land: Soils and Soil Moisture

Session: Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Annett Bartsch, Daniel Sabel, Wolfgang Wagner, Sang-Eun Park**View****ADD** **Paper Code:** WEP.B.3**Paper Number:** 3143**Title:** COSMO-SKYMED SAR DATA TO OBSERVE SMALL METALLIC OBJECTS FROM OCEAN CRASHED AIRCRAFT**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Rafael Lemos Paes, Ferdinando Nunziata, Elcio Hideiti Shiguemori, Maurizio Migliaccio, Antonio Montuori**View****ADD** **Paper Code:** WE3.T01.4**Paper Number:** 3144**Title:** THE ROLE OF WEATHER MODELS IN MITIGATION OF TROPOSPHERIC DELAY FOR SAR INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Calibration and Error Mitigation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Shizhuo Liu, Agnes Mika, Wenyu Gong, Ramon Hanssen, Franz Meyer, Don Morton, Peter Webley**View****ADD** **Paper Code:** TH3.T09.1**Paper Number:** 3148**Title:** USE OF ISO 19115 AND ISO 19115-2 LINEAGE MODELS FOR GEOSPATIAL WEB SERVICE PROVENANCE**Topic:** Invited Sessions: Provenance in Geoscience Data**Session:** Provenance in Geoscience Data**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Liping Di**View****ADD** **Paper Code:** FR4.T05.3**Paper Number:** 3149**Title:** AN EMPIRICAL APPROACH TOWARDS CHARACTERIZATION OF DRY SNOW LAYERS USING GNSS-R**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Fran Fabra, Estel Cardellach, Oleguer Nogués-Correig, Santi Oliveras, Serni Ribó, Antonio Rius, Giovanni Macelloni, Simone Pettinato, Salvatore D'Addio**View****ADD** **Paper Code:** FR1.T07.2**Paper Number:** 3150**Title:** MT. ETNA VOLCANIC PLUME FROM ASTER AND HYPERION DATA BY ASI-SRV MODULES**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Claudia Spinetti, Fabrizia Buongiorno, Malvina Silvestri, Simona Zoffoli**View****ADD** **Paper Code:** MOP.L.4**Paper Number:** 3152**Title:** VHR IMAGE SEGMENTATION USING OVER SEGMENTED REGIONS IN A MRF MODEL**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation and Object Detection**Time:** Monday, July 25, 17:00 - 18:30

ViewADD **Authors:** Orsan Aytekin, Yousef Rezaeitabar, Ilkay Ulusoy**Paper Code:** WE4.T07.3**Paper Number:** 3153**Title:** SNOW ANALYSIS FOR NUMERICAL WEATHER PREDICTION AT ECMWF**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Patricia de Rosnay, Gianpaolo Balsamo, Lars Isaksen**View**ADD **Paper Code:** TU3.T02.5**Paper Number:** 3154**Title:** POLARIMETRIC SAR TOMOGRAPHY OF TROPICAL FORESTS AT P-BAND**Topic:** Invited Sessions: Signal processing techniques for for POL-SAR and POL-inSAR applications**Session:** Signal Processing Techniques for POLSAR and POLINSAR Applications**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Yue Huang, Laurent Ferro-Famil, Cédric Lardeux**View**ADD **Paper Code:** TUP.C.10**Paper Number:** 3156**Title:** 2D APODIZATION IN UWB SAR USING LINEAR FILTERING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** New Techniques in InSAR / High Resolution SAR**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Thomas K. Sjögren, Viet Thuy Vu, Mats I. Pettersson**View**ADD **Paper Code:** TU2.T03.2**Paper Number:** 3157**Title:** Enhancing vegetation productivity forecasting using remotely-sensed surface soil moisture retrievals**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Wade Crow, John Bolten**View**ADD **Paper Code:** MOP.Y.2**Paper Number:** 3158**Title:** LONG ISLAND SOUND COASTAL OBSERVATORY: EVALUATION OF 2 YEARS TIME SERIES OF MULTISPECTRAL, HYPERSPECTRAL AND POLARIZATION MEASUREMENTS AND THEIR IMPLICATIONS FOR NPP CAL/VAL**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Samir Ahmed, Tristan Harmel, Alexander Gilerson, Alberto Tonizzo, Soe Hlaing, Alan Weidemann, Robert Arnone**View**ADD **Paper Code:** WEP.X.8**Paper Number:** 3160**Title:** AUTOMATED BATCH PROCESSING OF MASS REMOTE SENSING AND GEOSPATIAL DATA TO MEET THE NEEDS OF END USERS**Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management, Dissemination, Education and Policy**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jianjun Zhao, Yeqiao Wang, Hongyan Zhang**View****Paper Code:** FR2.T03.3**Paper Number:** 3161

ADD **Title:** SIXTEEN CHANNEL, NON-SCANNING AIRBORNE LIDAR SURFACE TOPOGRAPHY (LIST) SIMULATOR**Topic:** Sensors and Platforms: Lidar Sensors**Session:** Lidar Sensors III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Anthony Yu, Michael Krainak, David Harding, James Abshire, Xiaoli Sun, John Cavanaugh, Susan Valett, Luis Ramos-Izquierdo, Tom Winkert, Cynthia Kirchner, Michael Plants, Timonthy Filemyr, Brian Kamamia, William Hasselbrack

View

Paper Code: FR3.T03.1**Paper Number:** 3162ADD **Title:** First Results from the High Altitude MMIC Sounding Radiometer during the 2010 GRIP Hurricane Field Campaign**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance III**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Shannon Brown, Richard Denning, Bjorn Lambrigtsen, Boon Lim, Jordan Tanabe, Alan Tanner

View

Paper Code: TH4.T05.1**Paper Number:** 3165ADD **Title:** THE 2010 TUZ GOLU FIELD CAMPAIGN—AN OVERVIEW**Topic:** Invited Sessions: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Session:** Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Hilal Özen, Nigel Fox, Uğur Murat Leloğlu, Irina Behnert, Andrew Deadman

View

Paper Code: WE1.T05.5**Paper Number:** 3166ADD **Title:** GLOBAL EVALUATION OF FOUR AVHRR-NDVI DATA-SETS: INTERCOMPARISON AND ASSESSMENT AGAINST LANDSAT IMAGERY**Topic:** Land: Forests and Vegetation**Session:** Modeling Approaches**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Hylke Beck, Tim McVicar, Albert van Dijk, Richard De Jeu, Jaap Schellekens, Sampurno Bruijnzeel

View

Paper Code: TU4.T04.3**Paper Number:** 3167ADD **Title:** SYSTEM STATUS AND CALIBRATION OF THE F-SAR AIRBORNE SAR INSTRUMENT**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Airborne SAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Andreas Reigber, Marc Jäger, Jens Fischer, Ralf Horn, Rolf Scheiber, Pau Prats, Anton Nottensteiner

View

Paper Code: WEP.L.2**Paper Number:** 3168ADD **Title:** ADVANCED SAR APPLICATIONS FOR CANADA'S RIVER AND LAKE ICE**Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Torsten Geldsetzer, Joost van der Sanden, Hugo Drouin

View

Paper Code: WE2.T08.1**Paper Number:** 3169

ADD **Title:** IMPROVED BINARY PARTITION TREE CONSTRUCTION FOR HYPERSPECTRAL IMAGES: APPLICATION TO OBJECT DETECTION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Hyperspectral Image Analysis**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Silvia Valero, Philippe Salembier, Jocelyn Chanussot, Carles M. Cuadras

View

Paper Code: FR4.T09.4**Paper Number:** 3170ADD **Title:** COMPARISON OF GEOMETRY-BASED DOPPLER AMBIGUITY RESOLVER IN SQUINT SAR**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Wenchao Li, Yulin Huang, Jianyu Yang, Junjie Wu

View

Paper Code: TU4.T08.3**Paper Number:** 3171ADD **Title:** MAPPING THE DISTRIBUTION OF MATERIALS IN HYPERSPECTRAL DATA USING THE USGS MATERIAL IDENTIFICATION AND CHARACTERIZATION ALGORITHM (MICA)**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Raymond Kokaly, Trude King, Todd Hoefen

View

Paper Code: TU2.T01.5**Paper Number:** 3172ADD **Title:** STUDYING VOLCANOS WITH INSAR: WHERE HAVE WE BEEN AND WHERE ARE WE GOING?**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Deformation Interferometry**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Howard Zebker, Cody Wortham

View

Paper Code: TH4.T02.5**Paper Number:** 3173ADD **Title:** GLACIER FLOW AND TOPOGRAPHY MEASUREMENTS WITH TERRASAR-X AND TANDEM-X**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications II**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Michael Eineder, Wael Abdel Jaber, Dana Floricioiu, Helmut Rott, Nestor Yague-Martinez

View

Paper Code: WE3.T02.4**Paper Number:** 3175ADD **Title:** Forest Characterisation by means of TerraSAR-X and TanDEM-X (Polarimetric and) Interferometric data**Topic:** Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X**Session:** Polarimetric Interferometry: Applications with Tandem-X I**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Florian Kugler, Irena Hajnsek

View

Paper Code: WEP.M.8**Paper Number:** 3177**Title:** ANALYSIS AND SIMULATION OF NAM CO LAKE ON BRIGHTNESS TEMPERATURE OF PASSIVE MICROWAVE BY SATELLITE DATA

ADD **Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Pei Wang, Lingmei Jiang, Lixin Zhang, Jinmei Pan

View

Paper Code: WE1.T03.1**Paper Number:** 3178**Title:** NASA SOIL MOISTURE ACTIVE PASSIVE (SMAP) MISSION FORMULATIONADD **Topic:** Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications**Session:** NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Dara Entekhabi, Eni Njoku, Peggy O'Neill, Kent Kellogg, Jared Entin

View

Paper Code: TU3.T06.1**Paper Number:** 3179**Title:** URBAN BUILDING DAMAGE DETECTION FROM VERY HIGH RESOLUTION IMAGERY BY ONE-CLASS SVM AND SHADOW INFORMATIONADD **Topic:** Environmental Applications: Urban and Built Environment**Session:** VHR Urban Remote Sensing**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Peijun Li, Benqin Song, Haiqing Xu

View

Paper Code: TU1.T06.1**Paper Number:** 3182**Title:** A BAYESIAN APPROACH TO LOCALIZED MULTI-KERNEL LEARNING USING THE RELEVANCE VECTOR MACHINEADD **Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Methods**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Ryan Close, Joseph Wilson, Paul Gader

View

Paper Code: TUP.V.8**Paper Number:** 3185**Title:** COMPARISON OF THE DG FINITE ELEMENT METHOD WITH FINITE DIFFERENCE METHOD FOR ELASTIC-ELASTIC INTERFACEADD **Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Yangyang He, Jinghui Gao, Yichen Ma, Xiaokai Wang, Wei Wang, Baoli Wang

View

Paper Code: TH3.T06.5**Paper Number:** 3186**Title:** GLOBWETLAND II, A REGIONAL PILOT PROJECT OF THE RAMSAR CONVENTION ON WETLANDSADD **Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Kathrin Weise, Marc Paganini, Herbert Hansen, Eleni Fitoka, Manfred Keil, Christian Huettich, Eric van Valkengoed, Inge Melotte

View

Paper Code: FR1.T07.3**Paper Number:** 3187**Title:** Retrieval of PM10 Concentration from Moderate Resolution Imaging Spectroradiometer (MODIS) derived AOD in Peninsular MalaysiaADD **Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry II

- View**
ADD
- Time:** Friday, July 29, 08:20 - 10:00
Authors: Xen Quan Yap, Mazlan Hashim, Maged Marghany
- Paper Code:** WEP.D.6 **Paper Number:** 3188
Title: IMPORT VECTOR MACHINES BASED CLASSIFICATION OF MULTISENSOR REMOTE SENSING DATA
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Björn Waske, Ribana Roscher, Sascha Klemenjak
- View**
ADD
- Paper Code:** TU2.T02.1 **Paper Number:** 3189
Title: PolSAR Radarsat-2 Satellite Image Time Series Mining over the Chamonix Mont-Blanc test site
Topic: Invited Sessions: SAR Polarimetry: Theory and Applications
Session: SAR Polarimetry: Theory and Applications II
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Andreea Julea, Fernanda Ledo, Nicolas Meger, Emmanuel Trouvé, Philippe Bolon, Christophe Rigotti, Renaud Fallourd, Jean-Marie Nicolas, Gabriel Vasile, Michel Gay, Olivier Harant, Laurent Ferro-Famil, Felicity Lodge
- View**
ADD
- Paper Code:** TH1.T07.4 **Paper Number:** 3191
Title: VOLCANIC ASH RETRIEVAL FROM IR MULTISPECTRAL MEASUREMENTS BY MEANS OF NEURAL NETWORKS: AN ANALYSIS OF THE EYJAFJALLAJOKULL ERUPTION
Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas
Session: Satellite-Based Atmospheric Sounding and Imaging
Time: Thursday, July 28, 08:20 - 10:00
Authors: Matteo Picchiani, Marco Chini, Stefano Corradini, Luca Merucci, Pasquale Sellitto, Fabio Del Frate, Alessandro Piscini, Salvatore Stramondo
- View**
ADD
- Paper Code:** FR1.T03.4 **Paper Number:** 3192
Title: CALIBRATION AND PERFORMANCE OF THE AURA MICROWAVE LIMB SOUNDER
Topic: Sensors and Platforms: Radiometer Instruments and Calibration
Session: Microwave Radiometry Missions and Instrument Performance II
Time: Friday, July 29, 08:20 - 10:00
Authors: Robert Jarnot, Richard Cofield, Paul Stek, Herbert Pickett
- View**
ADD
- Paper Code:** TU1.T05.3 **Paper Number:** 3193
Title: THEMATIC MAPPING AT REGIONAL SCALE USING SIASGE RADAR DATA AT X AND L BAND AND OPTICAL IMAGES
Topic: Land: Land Use and Land Cover Change
Session: Land Use and Land Cover Change V
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Nazzareno Pierdicca, Fabrizio Pelliccia, Marco Chini
- View**
ADD
- Paper Code:** TH2.T10.1 **Paper Number:** 3194
Title: DIFFERENCES BETWEEN ASCAT AND QUIKSCAT DERIVED VORTICITY
Topic: Invited Sessions: Spacebased Observation of Ocean Surface Wind and Stress
Session: Spacebased Observation of Ocean Surface Wind and Stress
Time: Thursday, July 28, 10:20 - 12:00

[View](#)ADD **Authors:** Mark Bourassa, Heather Holbach**Paper Code:** TU4.T01.3**Paper Number:** 3197**Title:** WIDE AREA PERSISTENT SCATTERER INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Time-Series and Stacking Interferometry II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Nico Adam, Fernando Rodriguez-Gonzalez, Alessandro Parizzi, Werner Liebhart[View](#)ADD **Paper Code:** TH2.T04.2**Paper Number:** 3198**Title:** EXPLOITATION OF COSMO-SKYMED IMAGE TIME SERIES FOR SNOW MONITORING IN ALPINE REGIONS**Topic:** Land: Land Ice and Snow**Session:** Active Microwave Remote Sensing of Snow and Ice**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Thomas Schellenberger, Bartolomeo Ventura, Claudia Notarnicola, Marc Zebisch, Thomas Nagler, Helmut Rott[View](#)ADD **Paper Code:** MO4.T05.4**Paper Number:** 3199**Title:** MAPPING SPATIAL DISTRIBUTION OF LAND COVER CLASSIFICATION ERRORS**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Maria João Pereira, Amílcar Soares[View](#)ADD **Paper Code:** MO3.T10.2**Paper Number:** 3201**Title:** CHLOROPHYLL ENHANCEMENT BY EDDIES IN THE AGULHAS CURRENT SYSTEM**Topic:** Oceans: Ocean Biology (Color) and Water Quality**Session:** Ocean Biology (Color) and Water Quality I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Graham Quartly[View](#)ADD **Paper Code:** WEP.J.5**Paper Number:** 3203**Title:** PASSIVE L-BAND H POLARIZED MICROWAVE EMISSION DURING THE CORN GROWTH CYCLE**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Alicia Joseph, Rogier van der Velde, Peggy O'Neill, Bhaskar Choudhury, Edward J. Kim, Roger Lang, Timothy Gish[View](#)ADD **Paper Code:** TH4.T10.5**Paper Number:** 3204**Title:** Multi-disciplinary Interoperability for Earth Observation Sensor Web**Topic:** Invited Sessions: Earth Observation Sensor Web**Session:** Earth Observation Sensor Web**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Paolo Mazzetti, Stefano Nativi[View](#)**Paper Code:** TH4.T10.4**Paper Number:** 3205**Title:** COMBINING SPACE-BASED AND IN-SITU MEASUREMENTS TO TRACK FLOODING IN THAILAND

ADD **Topic:** Invited Sessions: Earth Observation Sensor Web**Session:** Earth Observation Sensor Web**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Steve Chien, Joshua Doubleday, David McLaren, Daniel Tran, Veerachai Tanpipat, Royal Chitradon, Surajate Boonya-Aroonnet, Porranee Thanapakpawin, Chatchai Khunboa, Watis Leelapatra, Vichian Plermkamom, Cauligi Raghavendra, Daniel Mandl

View

ADD **Paper Code:** WE3.T10.3**Paper Number:** 3207**Title:** NEAR NADIR KA-BAND SAR INTERFEROMETRY: SWOT AIRBORNE EXPERIMENT**Topic:** Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.**Session:** The Surface Water and Ocean Topography (SWOT) Mission II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Xiaoqing Wu, Scott Hensley, Ernesto Rodriguez, Delwyn Moller, Ronald Muellerschoen, Thierry Michel

View

ADD **Paper Code:** MO3.T10.3**Paper Number:** 3208**Title:** INTERANNUAL CHANGES IN ARCTIC ICE-EDGE BLOOMS**Topic:** Oceans: Ocean Biology (Color) and Water Quality**Session:** Ocean Biology (Color) and Water Quality I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Graham Quartly, Mahé Perrette

View

ADD **Paper Code:** TU1.T02.4**Paper Number:** 3212**Title:** INFLUENCE OF SPECKLE FILTERING OF POLARIMETRIC SAR DATA ON DIFFERENT CLASSIFICATION METHODS**Topic:** Invited Sessions: SAR Polarimetry: Theory and Applications**Session:** SAR Polarimetry: Theory and Applications I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Fang Cao, Charles-Alban Deledalle, Jean-Marie Nicolas, Florence Tupin, Loïc Denis, Laurent Ferro-Famil, Eric Pottier, Carlos López-Martínez

View

ADD **Paper Code:** TH1.T01.1**Paper Number:** 3213**Title:** OPTIMAL ESTIMATION OF DISTRIBUTED SCATTERER PHASE HISTORY PARAMETERS FROM METER-RESOLUTION SAR DATA**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High and Low Resolution SAR / InSAR**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Yuanyuan Wang, Xiao Xiang Zhu, Richard Bamler

View

ADD **Paper Code:** TH3.T06.2**Paper Number:** 3216**Title:** MODELING AND APPLICATIONS OF SWOT DATA**Topic:** Land: Wetlands and Inland Waters**Session:** Wetlands and Inland Waters II**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Christine Lion, Konstantinos Andreadis, Roger Fjørtoft, Florent Lyard, Nadine Pourthié, Jean-François Crétaux

View

ADD **Paper Code:** MO4.T01.1**Paper Number:** 3217**Title:** The Bistatic Electromagnetic Signature of Heterogeneous Sea Surface: Study of the Hydrodynamic Phenomena (Experimental validation)**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling

Session: Surface Scattering and Radiative Transfer**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Slahedine Ben Khadra, Ali Khenchaf**View****ADD** **Paper Code:** TU2.T01.4**Paper Number:** 3218**Title:** EXTRACTION OF WIDE-RANGING CRUSTAL MOVEMENT USING ALOS/PALSAR SCANSAR INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Deformation Interferometry**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Masanori Miyawaki, Shino Yamaguchi, Tsunekazu Kimura**View****ADD** **Paper Code:** MOP.A.1**Paper Number:** 3219**Title:** A CHANNEL DYNAMICS DRET MODEL FOR VEGETATION MEDIA ASSESSED AGAINST INDOOR AND OUTDOOR MEASUREMENTS**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling and Data Analysis**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Sergio Morgadinho, Rafael Caldeirinha, Telmo Fernandes, Juergen Richter**View****ADD** **Paper Code:** WE3.T01.5**Paper Number:** 3220**Title:** SYNERGIC USE OF EO, NWP AND GROUND BASED MEASUREMENTS FOR THE MITIGATION OF VAPOUR ARTEFACTS IN SAR INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Calibration and Error Mitigation**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Nazzareno Pierdicca, Fabio Rocca, Patrizia Basili, Stefania Bonafoni, Giovanni Carlesimo, Domenico Cimini, Piero Ciotti, Rossella Ferretti, Frank Silvio Marzano, Vinia Mattioli, Mario Montopoli, Riccardo Notarpietro, Daniele Perissin, Emanuela Pichelli, Bjorn Rommen, Giovanna Venuti**View****ADD** **Paper Code:** MOP.S.6**Paper Number:** 3222**Title:** MINERAL RESOURCE STUDIES IN AFGHANISTAN USING HYPERSPECTRAL DATA**Topic:** Land: Others**Session:** Land Applications I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Trude King, Raymond Kokaly, Todd Hoefen, Dan Knepper**View****ADD** **Paper Code:** TU3.T01.3**Paper Number:** 3223**Title:** AUTOMATIC QUALITY ASSESSMENT FOR INTERFEROGRAM SAR STACKS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Time-Series and Stacking Interferometry I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Pietro Guccione, Andrea Monti-Guarnieri, Stefano Tebaldini**View****ADD** **Paper Code:** WE2.T08.2**Paper Number:** 3225**Title:** TOWARDS STREAMING HYPERSPECTRAL ENDMEMBER EXTRACTION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Hyperspectral Image Analysis

ViewADD **Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Dzevdet Burazerovic, Rob Heylen, Paul Scheunders**Paper Code:** TU1.T03.4**Paper Number:** 3226**Title:** SPATIAL AND TEMPORAL MAPPING OF SOIL MOISTURE CONTENT WITH POLARIMETRIC RADARSAT2 SAR IMAGERY IN THE ALPINE AREA**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Luca Pasolli, Claudia Notarnicola, Lorenzo Bruzzone, Giacomo Bertoldi, Georg Niedrist, Ulrike Tappeiner, Marc Zebish, Fabio Del Frate, Gaia Vaglio Laurin**View**ADD **Paper Code:** TH4.T08.2**Paper Number:** 3228**Title:** COMBINING ENSEMBLE TECHNIQUE OF SUPPORT VECTOR MACHINES WITH THE OPTIMAL KERNEL METHOD FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Machine Learning for the Classification of Hyperspectral Data**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Bor-Chen Kuo, I-Ling Chen, Cheng-Hsuan Li, Chih-Cheng Hung**View**ADD **Paper Code:** WEP.S.4**Paper Number:** 3230**Title:** INDEPENDENT MEASUREMENTS OF RAMAN LIDAR WATER VAPOR CALIBRATION FACTOR**Topic:** Sensors and Platforms: Lidar Sensors**Session:** Lidar Sensors II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Monique Calhoun, Demetrius Venable, David Whiteman**View**ADD **Paper Code:** TU3.T03.3**Paper Number:** 3232**Title:** A SYNERGETIC USE OF OBSERVATIONS FROM MODIS, SEVIRI MSG, ASAR AND AMSR-E TO INFER A DAILY SOIL MOISTURE INDEX**Topic:** Land: Soils and Soil Moisture**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Claudia Notarnicola, Francesca Di Giuseppe, Luca Pasolli, Marouane Temimi, Bartolomeo Ventura, Marc Zebisch**View**ADD **Paper Code:** TH4.T05.3**Paper Number:** 3233**Title:** SPECTRAL REFLECTANCE MEASUREMENT METHODOLOGIES FOR TUZ GOLU FIELD CAMPAIGN**Topic:** Invited Sessions: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Session:** Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Yannick Boucher, Françoise Viallefont, Andrew Deadman, Nigel Fox, Irina Behnert, Derek Griffith, Peter Harris, Dennis Helder, Els Knaeps, Larry Leigh, Yuan Li, Hilal Özen, Flavio Ponzoni, Sindy Sterckx**View**ADD **Paper Code:** WE2.T02.3**Paper Number:** 3235**Title:** INTERFEROMETRIC PROCESSING OF TANDEM-X DATA**Topic:** Invited Sessions: TanDEM-X Commissioning Phase Results**Session:** TanDEM-X Commissioning Phase Results II

- View**
ADD
- Time:** Wednesday, July 27, 10:20 - 12:00
Authors: Thomas Fritz, Cristian Rossi, Nestor Yague-Martinez, Fernando Rodriguez-Gonzalez, Marie Lachaise, Helko Breit
- Paper Code:** WEP.P.8 **Paper Number:** 3236
Title: MULTI-SENSOR OBSERVATIONS OF CLIMATE CHANGE IMPACTS ON THE INDO-GANGETIC BASIN AND HIMALAYAN GLACIERS
Topic: Atmosphere: Aerosols and Atmospheric Chemistry
Session: Aerosols and Atmospheric Chemistry I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Ghassem Asrar, Anup Prasad, Hesham El-Askary, Menas Kafatos
- View**
ADD
- Paper Code:** TU2.T07.1 **Paper Number:** 3238
Title: GPM MISSION OVERVIEW AND U.S. SCIENCE STATUS
Topic: Invited Sessions: Global Precipitation Mission
Session: Global Precipitation Mission
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Arthur Hou, Gail Skofronick-Jackson
- View**
ADD
- Paper Code:** TU1.T09.4 **Paper Number:** 3239
Title: Combining space-borne SAR data and digital camera images to monitor glacier flow by remote and proximal sensing
Topic: Invited Sessions: Data Fusion
Session: Data Fusion
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Flavien Vernier, Renaud Fallourd, Yajing Yan, Diana Rosu, Emmanuel Trouvé, Jean-Marie Nicolas, Jean-Michel Friedt, Luc Moreau
- View**
ADD
- Paper Code:** TU4.T10.5 **Paper Number:** 3241
Title: POLARIMETRIC CHARACTERISTICS OF MARINE ATMOSPHERIC BOUNDARY LAYER CONVECTION
Topic: Invited Sessions: SAR applications in oceanography: from research to operation
Session: SAR Applications in Oceanography: From Research to Operation II
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Haiyan Li, William Perrie, Lanli Guo, Biao Zhang
- View**
ADD
- Paper Code:** MOP.Z.4 **Paper Number:** 3242
Title: ASSESSMENT OF MULTIANGULAR POLARIZATION CONTRIBUTION TO THE BIDIRECTIONAL REFLECTANCE OF NATURAL SAMPLES
Topic: Sensors and Platforms: Radiometer Instruments and Calibration
Session: Passive Optical and Hyperspectral Sensors II
Time: Monday, July 25, 17:00 - 18:30
Authors: Georgi T. Georgiev, James J. Butler, Kurtis J. Thome, K. Jon Ranson, Michael D. King
- View**
ADD
- Paper Code:** FR3.T10.4 **Paper Number:** 3244
Title: Aalto-1 - An Experimental Nanosatellite for Hyperspectral Remote Sensing
Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors
Session: Remote Sensing Data and Policy Decisions
Time: Friday, July 29, 13:20 - 15:00
Authors: Jaan Praks, Antti Kestilä, Martti Hallikainen, Heikki Saari, Jarkko Antila, Pekka Janhunen, Rami Vainio
- View**
- Paper Code:** WE3.T04.1 **Paper Number:** 3245

ADD **Title:** MONITORING SOIL FREEZE/THAW CONDITIONS OVER AN AGRICULTURAL AREA USING AMSR-E BRIGHTNESS TEMPERATURE**Topic:** Land: Soils and Soil Moisture**Session:** Freeze-Thaw and Soil Moisture**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Louis-Philippe Rousseau, Ramata Magagi, Robert Leconte, Brenda Toth

View

Paper Code: TU1.T10.5**Paper Number:** 3247**Title:** CROSS-POLARIZED SAR: A NEW TECHNIQUE FOR HURRICANES**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** William Perrie, Biao ZhangADD

View

Paper Code: MOP.N.12**Paper Number:** 3249**Title:** A PROTOCOL FOR EXPEDITE AND EFFECTIVE RETRIEVAL OF LAND CONVERSION INFORMATION IN SAVANNA ENVIRONMENTS**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change III**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Manuel Ferreira, Laerte Ferreira Jr., Nilson Ferreira, Mercedes Bustamante, Jean OmettoADD

View

Paper Code: WEP.A.1**Paper Number:** 3250**Title:** SPACE TIME ADAPTIVE PROCESSING FOR MOVING TARGET DETECTION AND IMAGING IN BISTATIC SAR**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Viet Thuy Vu, Thomas K. Sjögren, Mats I. PetterssonADD

View

Paper Code: MO4.T10.3**Paper Number:** 3251**Title:** MARITIME AWARENESS FOR COUNTER-PIRACY IN THE GULF OF ADEN**Topic:** Oceans: Others**Session:** Oceans II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Monica Posada, Harm Greidanus, Marlene Alvarez, Michele Vespe, Tulay Cokacar, Silvia FalchettiADD

View

Paper Code: TH1.T09.4**Paper Number:** 3252**Title:** CONJUNCTIVE FORMULATION OF THE RANDOM SET FRAMEWORK FOR MULTIPLE INSTANCE LEARNING: APPLICATION TO REMOTE SENSING**Topic:** Invited Sessions: New trends in machine learning for remote sensing**Session:** New Trends in Machine Learning for Remote Sensing**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Jeremy Bolton, Paul GaderADD

View

Paper Code: TH4.T10.3**Paper Number:** 3253**Title:** VIDEO CHANGE DETECTION USING DYNAMIC SENSOR WEB**Topic:** Invited Sessions: Earth Observation Sensor Web**Session:** Earth Observation Sensor Web**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Liping Di, Genong Yu, Zeqiang ChenADD

ViewADD **Paper Code:** TH4.T08.5**Paper Number:** 3254**Title:** Automated Hyperspectral Imagery Analysis via Support Vector Machines based Multi-Classifer System with Non-Uniform Random Feature Selection**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Machine Learning for the Classification of Hyperspectral Data**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Sathishkumar Samiappan, Saurabh Prasad, Lori Bruce**View**ADD **Paper Code:** WEP.V.3**Paper Number:** 3255**Title:** GROUND-BASED NETWORK AND SUPERSITE OBSERVATIONS TO COMPLEMENT AND ENRICH EOS RESEARCH**Topic:** Sensors and Platforms: Gound Based System**Session:** Ground Based System - Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Si-Chee Tsay, Brent Holben, Ellsworth Welton**View**ADD **Paper Code:** WE2.T08.3**Paper Number:** 3256**Title:** Branch and Bound based Feature Elimination for Support Vector Machine based Classification of Hyperspectral Images**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Image Analysis**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Sathishkumar Samiappan, Saurabh Prasad, Lori Bruce, Eric Hansen**View**ADD **Paper Code:** FR2.T10.2**Paper Number:** 3258**Title:** DOMAIN ANALYSIS OF RADIO FREQUENCY INTERFERENCE DETECTION TECHNIQUES FOR SMOS**Topic:** Invited Sessions: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry**Session:** Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Sidharth Misra, Christopher Ruf**View**ADD **Paper Code:** WE1.T05.3**Paper Number:** 3259**Title:** TEMPORAL ANALYSIS OF FOREST COVER USING HIDDEN MARKOV MODELS**Topic:** Land: Forests and Vegetation**Session:** Modeling Approaches**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Arnt-Børre Salberg, Øivind Due Trier**View**ADD **Paper Code:** WEP.D.7**Paper Number:** 3260**Title:** NEUMAPPER: A NEW SOFTWARE PACKAGE FOR SATELLITE IMAGE CLASSIFICATION BASED ON NEURAL NETWORKS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Fabio Del Frate, Irene Fabrini, Miguel Penalver, Michele Iapaolo**View****Paper Code:** WE2.T10.4**Paper Number:** 3261**Title:** BENEFITS OF SATELLITE ALTIMETRY TO FORECAST DOWNSTREAM WATER ELEVATION IN CONTEXT OF TRANSBOUNDARY RIVERS

ADD

Topic: Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.

Session: The Surface Water and Ocean Topography (SWOT) Mission I

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Sylvain Biancamaria, Faisal Hossain, Dennis Lettenmaier

View

ADD

Paper Code: FR1.T06.5

Paper Number: 3262

Title: THE APRIL 3, 2010 EARTHQUAKE ALONG THE PERNICANA FAULT (MT. ETNA - ITALY): ANALYSIS OF SATELLITE AND IN SITU GROUND DEFORMATION DATA INTEGRATED BY THE SISTEM APPROACH.

Topic: Invited Sessions: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas

Session: Use of Remote Sensing for Surface Deformation Monitoring in Volcanic and Seismogenic Areas II

Time: Friday, July 29, 08:20 - 10:00

Authors: Christian Bignami, Salvatore Stramondo, Alessandro Bonforte, Francesco Guglielmino, Giuseppe Puglisi, Francesco Obrizzo, Urs Wegmüller, Pierre Briole

View

ADD

Paper Code: WE1.T10.3

Paper Number: 3263

Title: SEA SURFACE SALINITY AND L-BAND RADIOMETRIC MEASUREMENTS IN THE GULF OF BISCAY: SMOS AND CAROLS

Topic: Oceans: Ocean Temperature and Salinity

Session: Ocean Salinity

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Adrien Martin, Jacqueline Boutin, Danièle Hauser, Gilles Reverdin, Mickael Pardé, Mehrez Zribi, Pascal Fanise, Monique Dechambre, Xiaobin Yin, Joseph Tenerelli, Nicolas Reul

View

ADD

Paper Code: WE1.T02.4

Paper Number: 3265

Title: THE JOINT TERRASAR-X / TANDEM-X GROUND SEGMENT

Topic: Invited Sessions: TanDEM-X Commissioning Phase Results

Session: TanDEM-X Commissioning Phase Results I

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Birgit Schättler, Ralph Kahle, Robert Metzsig, Ulrich Steinbrecher, Manfred Zink

View

ADD

Paper Code: TUP.M.6

Paper Number: 3267

Title: STUDY ON THE FRACTAL ANALYSIS OF SAR IMAGES AND ITS APPLICATION TO THE EXTRACTION OF SEISMIC DAMAGE OF 2010 YUSHU, CHINA MS=7.1 EARTHQUAKE

Topic: Land: Natural Disaster / Land Slide

Session: Remote Sensing of Land Deformation and Floods

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Xiaoqing Wang, Dingjian Jin, Aixia Dou

View

ADD

Paper Code: TUP.O.6

Paper Number: 3268

Title: Retrieval and Assessment of Sub-mesoscale Wind Velocity Vectors with Synthetic Aperture Radar

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents III

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Gisela Carvajal, Leif E. B. Eriksson, Lars M. Ulander

View

Paper Code: FR1.T02.2

Paper Number: 3269

Title: DISTRIBUTED IMAGING WITH TERRASAR-X AND TANDEM-X

ADD **Topic:** Invited Sessions: Advanced SAR Concepts and Mission**Session:** Advanced SAR Concepts and Mission**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Pau Prats, Paco López-Dekker, Francesco De Zan, Steffen Wollstadt, Markus Bachmann, Ulrich Steinbrecher, Rolf Scheiber, Andreas Reigber, Gerhard Krieger

View

ADD **Paper Code:** FR2.T07.2**Paper Number:** 3270**Title:** NPOESS PREPARATORY PROJECT VALIDATION PLANS FOR THE OZONE MAPPING AND PROFILER SUITE**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry III**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Lawrence Flynn, Didier Rault, Glen Jaross, Irina Petropavlovskikh, Craig Long, John Hornstein, Eric Beach, Wei Yu, Jianguo Niu, Dustin Swales

View

ADD **Paper Code:** TH2.T03.1**Paper Number:** 3271**Title:** GEOSTATIONARY MICROWAVE SOUNDERS: SCIENCE, APPLICATIONS AND THE GEOSTAR INSTRUMENT CONCEPT**Topic:** Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers**Session:** Interferometric Synthetic Aperture Microwave Radiometers II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Bjorn Lambrigtsen, Todd Gaier, Pekka Kangaslahti, Boon Lim, Alan Tanner

View

ADD **Paper Code:** TH2.T01.5**Paper Number:** 3272**Title:** AUTOMATIC FEATURES EXTRACTION IN SUB-URBAN LANDSCAPE USING VERY HIGH RESOLUTION COSMO-SKYMED SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR/InSAR Image Extraction and Improvement Techniques**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Fabio Del Frate, Chiara Pratola, Giovanni Schiavon, Domenico Solimini

View

ADD **Paper Code:** TH1.T06.2**Paper Number:** 3273**Title:** U.S. National Agricultural Land Cover Monitoring**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Remote Sensing and Geo-informatics for Agricultural Monitoring and Assessment**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Rick Mueller

View

ADD **Paper Code:** TH3.T03.5**Paper Number:** 3275**Title:** Development of a L-band On-orbit Calibration Reference Model for the Marie-Byrd Antarctic Region: Application to Aquarius, SMOS and SMAP**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Soil Moisture and Ocean Salinity (SMOS) Mission**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Shannon Brown, Sidharth Misra

View

ADD **Paper Code:** TH1.T07.5**Paper Number:** 3278**Title:** AN ATMOSPHERIC ALGORITHM SUITE BASED ON NEURAL NETWORKS FOR MICROWAVE IMAGER/SOUNDERS**Topic:** Atmosphere: Atmospheric Sounding

Session: Satellite-Based Atmospheric Sounding and Imaging

Time: Thursday, July 28, 08:20 - 10:00

Authors: William J. Blackwell, Richard Czerwinski, R. Vincent Leslie, Michael Pieper, Philip Rosenkranz, Jenna Samra, David Staelin, Chinnawat Surussavadee, Kelly Wallenstein, Denise Zhang

View

ADD

Paper Code: WE1.T08.5

Paper Number: 3279

Title: Genetic Algorithms and Linear Discriminant Analysis based Dimensionality Reduction for Remotely Sensed Image Analysis

Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing

Session: Feature Extraction and Band Selection in Hyperspectral Imagery

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Minshan Cui, Saurabh Prasad, Majid Mahrooghy, Lori Bruce, James Aanstoos

View

ADD

Paper Code: FR2.T10.1

Paper Number: 3280

Title: INVESTIGATION OF THE INFLUENCE OF L-BAND RFI ON SMOS – A VIEW FROM THE FINNISH VALIDATION SITES

Topic: Invited Sessions: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry

Session: Frequency Allocation for Remote Sensing and RFI Mitigation for Microwave Radiometry

Time: Friday, July 29, 10:20 - 12:00

Authors: Martti Hallikainen, Juha Kainulainen, Jaakko Seppänen, Anssi Hakkarainen

View

ADD

Paper Code: MOP.O.2

Paper Number: 3281

Title: ENVILAND2 – SYNERGISTIC USAGE OF OPTICAL AND SAR THE NEW CHANGE DETECTION TOOLBOX FOR ARCGIS

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change IV

Time: Monday, July 25, 17:00 - 18:30

Authors: Kathrin Weise, Bert Wolf, Michael Schwarz, Christiane Schmillius, Gunter Menz

View

ADD

Paper Code: TU2.T03.5

Paper Number: 3284

Title: CLOSED LOOP BRIGHTNESS TEMPERATURE DATA INVERSION FOR THE RETRIEVAL OF SOIL HYDRAULIC PROPERTIES

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Remote Sensing II

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Marin Dimitrov, Jan Vanderborght, Khan Zaib Jadoon, Mike Schwank, Lutz Weihermüller, Harry Vereecken

View

ADD

Paper Code: WEP.K.4

Paper Number: 3285

Title: SOIL MOISTURE RETRIEVAL FROM DENSE TEMPORAL SERIES OF C-BAND SAR DATA OVER AGRICULTURAL SITES

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Techniques

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Anna Balenzano, Giuseppe Satalino, Valentijn Pauwels, Francesco Mattia

View

ADD

Paper Code: FR1.T05.3

Paper Number: 3288

Title: MODIS AND VIIRS GEOLOCATION ERROR AND LONG-TERM TREND ANALYSIS WITH AUTOMATED CORRECTION TECHNIQUES USING KALMAN FILTERING

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors

Session: Passive Optical and Hyperspectral Sensors III

Time: Friday, July 29, 08:20 - 10:00

Authors: Masahiro Nishihama, Robert Wolfe

View

ADD

Paper Code: WE4.T03.5

Paper Number: 3289

Title: RFI MITIGATION AND DETECTION FOR THE SMAP RADAR

Topic: Sensors and Platforms: Active Microwave

Session: New Active Microwave Instruments

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Samuel Chan, Mark Fischman, Michael Spencer

View

ADD

Paper Code: TUP.K.1

Paper Number: 3290

Title: SPACE-BASED SENSORWEB MONITORING OF WILDFIRES IN THAILAND

Topic: Land: Forests and Vegetation

Session: Analysis Methods, Classification, and Sensor Fusion I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Steve Chien, Joshua Doubleday, David McLaren, Ashley Davies, Daniel Tran, Veerachai Tanpipat, Siri Akaakara, Anuchit Ratanasuwan, Daniel Mandl

View

ADD

Paper Code: TH1.T04.5

Paper Number: 3293

Title: MICROWAVE EMISSION SIGNATURE OF SNOW-COVERED LAKE ICE

Topic: Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow

Session: Active/Passive Microwave Remote Sensing of Terrestrial Snow II

Time: Thursday, July 28, 08:20 - 10:00

Authors: Martti Hallikainen, Pauli Sievinen, Jaakko Seppänen, Matti Vaaja, Annakaisa von Lerber, Erka Rouhe, Juha Lemmetyinen

View

ADD

Paper Code: TU2.T05.1

Paper Number: 3294

Title: MAPPING FOREST UNDERSTORY IN EUROPEAN HEMI-BOREAL STANDS USING MODIS BRDF PRODUCT

Topic: Land: Forests and Vegetation

Session: Vegetation Structure and Inventory I

Time: Tuesday, July 26, 10:20 - 12:00

Authors: Jan Pisek, Miina Rautiainen, Matti Mottus, Janne Heiskanen

View

ADD

Paper Code: TH1.T08.2

Paper Number: 3295

Title: ROBUST RECOVERY OF SYNTHETIC APERTURE RADAR DATA FROM UNIFORMLY UNDER-SAMPLED MEASUREMENTS

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: SAR Image Processing I

Time: Thursday, July 28, 08:20 - 10:00

Authors: Lam Nguyen, Trac Tran

View

ADD

Paper Code: MOP.Y.3

Paper Number: 3296

Title: A GIS-READY PORTABLE AIRBORNE MULTISENSOR IMAGING SYSTEM

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors

Session: Passive Optical and Hyperspectral Sensors I

Time: Monday, July 25, 17:00 - 18:30

Authors: Xiuhong Sun, William Chen, James Eichholz, Jacob Osterberg

View

Paper Code: MO4.T04.4

Paper Number: 3297

Title: PRE-LAUNCH EVALUATION OF THE NPP VIIRS LAND AND CRYOSPHERE EDRs TO MEET NASA'S SCIENCE REQUIREMENTS

ADD **Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** US Joint Polar Satellite System II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Miguel Román, Christopher Justice, Ivan Csiszar, Jeffrey R. Key, Sadashiva Devadiga, Carol Davidson, Robert Wolfe, Jeff Privette

View

Paper Code: MO4.T09.2**Paper Number:** 3299**Title:** ENHANCING CHANGE DETECTION RESULTS OF IR-MAD USING A SUBSETADD **Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Change Detection and Multitemporal Image Analysis II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Prashanth Reddy Marpu, Jon Atli Benediktsson

View

Paper Code: WEPL.4**Paper Number:** 3301**Title:** POTENTIAL OF C- AND X- BAND MULTIPOLARIZATION SAR DATA FOR SNOW CHARACTERIZATION IN SUBARCTIC REGIONSADD **Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yannick Duguay, Monique Bernier

View

Paper Code: TH1.T06.4**Paper Number:** 3302**Title:** A REMOTE SENSING-BASED GLOBAL AGRICULTURAL DROUGHT MONITORING AND FORECASTING SYSTEM FOR SUPPORTING GEOSSADD **Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Remote Sensing and Geo-informatics for Agricultural Monitoring and Assessment**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Liping Di, Weiguo Han, Meixia Deng

View

Paper Code: WE3.T05.2**Paper Number:** 3303**Title:** A METHODOLOGY TO SELECT PHENOLOGICALLY SUITABLE LANDSAT SCENES FOR FOREST CHANGE DETECTIONADD **Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Do-Hyung Kim, Raghuram Narashiman, Joseph O. Sexton, Chengquan Huang, John R. Townshend

View

Paper Code: TU1.T08.2**Paper Number:** 3304**Title:** Spatial-Spectral Unmixing using Fuzzy Local InformationADD **Topic:** Invited Sessions: Spectral Unmixing of Hyperspectral Data**Session:** Spectral Unmixing of Hyperspectral Data I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Alina Zare

View

Paper Code: MO4.T04.1**Paper Number:** 3307**Title:** NPP VIIRS PRE-LAUNCH PERFORMANCE AND SDR VALIDATIONADD **Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** US Joint Polar Satellite System II**Time:** Monday, July 25, 15:20 - 17:00

[View](#)ADD

Authors: Frank De Luccia, Bruce Guenther, Chris Moeller, Xiaoxiong Xiong, Robert Wolfe

Paper Code: MO4.T03.1

Paper Number: 3309

Title: ON THE USE OF MULTI-TEMPORAL SERIES OF COSMO-SKYMED DATA FOR LANDCOVER CLASSIFICATION AND SURFACE PARAMETER RETRIEVAL OVER AGRICULTURAL SITES

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture from Microwave Time Series

Time: Monday, July 25, 15:20 - 17:00

Authors: Anna Balenzano, Giuseppe Satalino, Antonella Belmonte, Guido D'Urso, Fulvio Capodici, Vito Iacobellis, Andrea Gioia, Michele Rinaldi, Sergio Ruggieri, Francesco Mattia

[View](#)ADD

Paper Code: WE2.T05.3

Paper Number: 3311

Title: THE ANNUAL BEHAVIOR OF BACKSCATTERING AND COHERENCE OF PALSAR DATA

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis II

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Wenjian Ni, Zhifeng Guo, Zhiyu Zhang, Guoqing Sun

[View](#)ADD

Paper Code: MOP.U.5

Paper Number: 3317

Title: A Hidden Markov Context Model for GPR-Based Landmine Detection Incorporating Stick-Breaking Priors

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications II

Time: Monday, July 25, 17:00 - 18:30

Authors: Christopher Ratto, Kenneth Morton, Leslie Collins, Peter Torrione

[View](#)ADD

Paper Code: WE2.T04.2

Paper Number: 3318

Title: Calibration of Polarimetric SAR Images Affected by Faraday Rotation Through the PS Technique

Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration

Session: SAR Calibration

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Lorenzo Iannini, Andrea Monti-Guarnieri, Stefano Tebaldini

[View](#)ADD

Paper Code: WEP.T.1

Paper Number: 3319

Title: POST-LAUNCH CALIBRATION SUPPORT FOR VIIRS ONBOARD NASA NPP SPACECRAFT

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: US Joint Polar Satellite System III

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Xiaoxiong Xiong, Vincent Chiang, Jeffrey McIntire, Mathew Schwaller, James J. Butler

[View](#)ADD

Paper Code: TUP.X.3

Paper Number: 3320

Title: ROBUSTNESS OF THE VICARIOUS COLD CALIBRATION ALGORITHM IN THE DOUBLE DIFFERENCE METHOD FOR GPM INTER-CALIBRATION

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Microwave Radiometer Calibration and RFI Mitigation

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Rachael Kroodsma, Darren McKague, Christopher Ruf

ViewADD **Paper Code:** TH1.T08.3**Paper Number:** 3321**Title:** AUTOMATED REGISTRATION OF SYNTHETIC APERTURE RADAR IMAGERY TO LIDAR**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Mark Pritt, Kevin LaTourette**View**ADD **Paper Code:** TUP.X.4**Paper Number:** 3322**Title:** NPP ATMS SENSOR MODEL USING FRACTIONAL BROWNIAN MOTION AND THERMAL VACUUM DATA**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** R. Vincent Leslie, William J. Blackwell, Michael DiLiberto, Mark Tolman**View**ADD **Paper Code:** TH1.T09.5**Paper Number:** 3324**Title:** HYPERSPECTRAL UNMIXING WITH SPARSE GROUP LASSO**Topic:** Invited Sessions: New trends in machine learning for remote sensing**Session:** New Trends in Machine Learning for Remote Sensing**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Marian-Daniel Iordache, Jose Bioucas-Dias, Antonio Plaza**View**ADD **Paper Code:** TU4.T09.2**Paper Number:** 3325**Title:** VERIFICATION & VALIDATION OF A SEMANTIC IMAGE TAGGING FRAMEWORK VIA GENERATION OF GEOSPATIAL IMAGERY GROUND TRUTH**Topic:** Invited Sessions: Data Mining and Machine Learning for Remote Sensing**Session:** Data Mining and Machine Learning for Remote Sensing II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Shaun Gleason, Mesfin Dema, Hamed Sari-Sarraf, Anil Cheriyyadat, Ranga Raju Vatsavai, Regina Ferrell**View**ADD **Paper Code:** FR1.T04.5**Paper Number:** 3326**Title:** DEVELOPING A DUAL-FREQUENCY FM-CW RADAR TO STUDY PRECIPITATION**Topic:** Sensors and Platforms: Gound Based System**Session:** Ground Based System II**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Christopher Williams**View**ADD **Paper Code:** WEP.N.9**Paper Number:** 3327**Title:** EFFECTIVE PARAMETERS FOR CHARACTERIZING THE SCATTERING OF ICE AND SNOW PARTICLE ENSEMBLES**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** K.-S. Kuo, Qingyuan Han**View**ADD **Paper Code:** MOP.A.9**Paper Number:** 3328**Title:** OVER THE HORIZON SKY WAVE RADAR SIMULATOR FOR IONOSPHERE AND EARTH SURFACE SOUNDING**Topic:** Atmosphere: Atmospheric Sounding**Session:** Electromagnetic Modeling and Data Analysis**Time:** Monday, July 25, 17:00 - 18:30

ViewADD **Authors:** Fabrizio Cuccoli, Luca Facheris, Francesco Sermi**Paper Code:** TH1.T10.3**Paper Number:** 3329**Title:** INTERFEROMETRIC SEA ICE MAPPING WITH TANDEM-X: FIRST EXPERIMENTS**Topic:** Oceans: Sea Ice**Session:** Sea Ice II**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Rolf Scheiber, Francesco de Zan, Pau Prats, Laís Sant'Anna Araújo, Maren Künemund, Luca Marotti**View**ADD **Paper Code:** TU4.T05.1**Paper Number:** 3331**Title:** ECOSAR: A P- BAND DIGITAL BEAMFORMING POLARIMETRIC INTERFEROMETRIC SAR INSTRUMENT TO MEASURE ECOSYSTEM STRUCTURE AND BIOMASS**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Temilola Fatoyinbo, Rafael Rincon, Guoqing Sun, K. Jon Ranson**View**ADD **Paper Code:** FR2.T01.4**Paper Number:** 3332**Title:** HIGH RESOLUTION SAR IMAGING USING RANDOM PULSE TIMING**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** SAR Processing Techniques**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Dehong Liu, Petros Boufounos**View**ADD **Paper Code:** MOP.D.2**Paper Number:** 3333**Title:** ANALYSIS OF ALOS PALSAR AND TERRASAR-X DATA FOR PROTECTED AREA MAPPING: A CASE OF THE BWINDI IMPENETRABLE NATIONAL PARK-UGANDA**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** John Richard Otukey, Thomas Blaschke, Michael Collins, Yasser Maghsoudi**View**ADD **Paper Code:** WEP.D.8**Paper Number:** 3336**Title:** SATELLITE IMAGE RETRIEVAL USING SEMI-SUPERVISED LEARNING**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Mohamed Gebril, Abdollah Homaifar, Ruben Buaba, Eric Kihn**View**ADD **Paper Code:** FR1.T10.1**Paper Number:** 3337**Title:** A PROPOSED EARTH SCIENCE COLLABORATORY FOR REMOTE SENSING DATA ANALYSIS**Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management and Systems**Time:** Friday, July 29, 08:20 - 10:00**Authors:** K.-S. Kuo, Christopher Lynnes, Rahul Ramachandran

ViewADD **Paper Code:** TH2.T06.2**Paper Number:** 3338**Title:** EXPLOITING MULTISENSOR SPECTRAL DATA TO IMPROVE CROP RESIDUE COVER ESTIMATES FOR MANAGEMENT OF AGRICULTURAL WATER QUALITY**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Magda S. Galloza, Melba M. Crawford**View**ADD **Paper Code:** TU3.T05.4**Paper Number:** 3339**Title:** SEE THE FORESTS WITH DIFFERENT EYES**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Chue Poh Tan, Armando Marino, Iain Woodhouse, Shane R. Cloude, Juan Suarez, Colin Edwards**View**ADD **Paper Code:** MOP.K.6**Paper Number:** 3340**Title:** A NEW MULTI-SENSOR APPROACH TO MEASUREMENT OF TOPOGRAPHIC CHANGES RESULTING FROM ACTIVE VOLCANISM**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** David McAlpin, Franz Meyer, Peter Webley**View**ADD **Paper Code:** TU1.T01.2**Paper Number:** 3341**Title:** THEORETICAL INVESTIGATION OF RADAR CROSS SECTION OF A CYLINDRICAL OBJECT ADJACENT TO A SMOOTH ROUGH SURFACE USING REACTION THEOREM**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Volume Scattering**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Hamid Nejati, Kamal Sarabandi**View**ADD **Paper Code:** TH1.T02.3**Paper Number:** 3342**Title:** RADARSAT-2 MISSION OPERATIONS STATUS**Topic:** Invited Sessions: RADARSAT**Session:** RADARSAT I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Anthony Hillman, Philippe Rolland, Marielle Chabot, Rene Periard, Pierre Ledantec, Nick Martens**View**ADD **Paper Code:** TU2.T09.5**Paper Number:** 3343**Title:** Large Along-Track Baseline SAR-GMTI: First Results With The TerraSAR-X/TanDEM-X Satellite Constellation**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Target Detection**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Stefan Baumgartner, Gerhard Krieger**View**ADD **Paper Code:** MOP.V.5**Paper Number:** 3344**Title:** THE TANDEM-X GROUND STATION NETWORK**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments I

- View**
ADD
- Time:** Monday, July 25, 17:00 - 18:30
Authors: Robert Metzиг, Erhard Diedrich, Ralf Reissig, Maximilian Schwinger, Frank Riffel, Hennes Henniger, Birgit Schättler
- Paper Code:** MOP.P.2 **Paper Number:** 3349
Title: "FUSION FOR CLASSES IN DIFFICULTY" FOR ACCURATE AND SPEED TROPICAL RAINFORESTS CLASSIFICATION
Topic: Land: Forests and Vegetation
Session: Tropical Forests
Time: Monday, July 25, 17:00 - 18:30
Authors: Robin Pouteau, Benoit Stoll
- View**
ADD
- Paper Code:** TU4.T09.1 **Paper Number:** 3352
Title: FROM SHANNON COMMUNICATION THEORY TO SEMANTIC CODING: CONCEPTS FOR IMAGE INFORMATION MINING
Topic: Invited Sessions: Data Mining and Machine Learning for Remote Sensing
Session: Data Mining and Machine Learning for Remote Sensing II
Time: Tuesday, July 26, 15:20 - 17:00
Authors: Mihai Datcu, Gottfried Schwarz
- View**
ADD
- Paper Code:** WE2.T02.2 **Paper Number:** 3353
Title: BISTATIC SYNCHRONIZATION AND PROCESSING OF TANDEM-X DATA
Topic: Invited Sessions: TanDEM-X Commissioning Phase Results
Session: TanDEM-X Commissioning Phase Results II
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Helko Breit, Marwan Younis, Ulrich Bals, Andreas Niedermeier, Christo Grigorov, Jaime Hueso-Gonzalez, Gerhard Krieger, Michael Eineder, Thomas Fritz
- View**
ADD
- Paper Code:** FR2.T01.5 **Paper Number:** 3354
Title: Phase Requirements, design and validation of phase preserving processors for a SAR system
Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR
Session: SAR Processing Techniques
Time: Friday, July 29, 10:20 - 12:00
Authors: Michele Belotti, Davide D'Aria, Lorenzo Iannini, Andrea Monti-Guarnieri, Silvia Scirpoli
- View**
ADD
- Paper Code:** WEP.O.6 **Paper Number:** 3355
Title: NEURAL NETWORK ESTIMATION OF ATMOSPHERIC PROFILES USING AIRS/AMSU OBSERVATIONS: IMPROVED UNCERTAINTY ASSESSMENTS
Topic: Atmosphere: Atmospheric Sounding
Session: Weather Prediction and Data Assimilation II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: William J. Blackwell, Michael Pieper, Zuoyu Tao
- View**
ADD
- Paper Code:** FR1.T02.5 **Paper Number:** 3356
Title: THE JOINT TERRASAR-X / TANDEM-X MISSION PLANNING SYSTEM
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: Advanced SAR Concepts and Mission
Time: Friday, July 29, 08:20 - 10:00
Authors: Falk Mrowka, Michael P. Geyer, Christoph Lenzen, Andreas Spörl, Tobias Götffert, Edith Maurer, Martin Wickler, Birgit Schättler
- View**
- Paper Code:** TH2.T02.2 **Paper Number:** 3357

ADD **Title:** RADARSAT Application in Ocean Wind Measurements**Topic:** Invited Sessions: RADARSAT**Session:** RADARSAT II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Vladimir Zabeline, Laurie Neil, William Perrie, Paris Vachon, Chris Fogarty, Shahid Khurshid, Sergey Komarov, Biao Zhang

View

ADD **Paper Code:** TU3.T09.1**Paper Number:** 3358**Title:** KNOWLEDGE BASED IMAGE INFORMATION FUNCTIONS FOR THE TERRASAR-X / TANDEM-X PAYLOAD GROUND SEGMENT: VALIDATION RESULTS**Topic:** Invited Sessions: Data Mining and Machine Learning for Remote Sensing**Session:** Data Mining and Machine Learning for Remote Sensing I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Daniela Espinoza-Molina, Gottfried Schwarz, Mihai Datcu

View

ADD **Paper Code:** WEPT.8**Paper Number:** 3360**Title:** HDF5 FOR NPP SENSOR AND ENVIRONMENTAL DATA RECORDS**Topic:** Data Management, Dissemination, Education and Policy: Remote Sensing Data and Policy Decisions**Session:** US Joint Polar Satellite System III**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Michael Denning, Richard Ullman

View

ADD **Paper Code:** WEP.S.3**Paper Number:** 3362**Title:** The Lunar Orbiter Laser Altimeter (LOLA) Laser Transmitter**Topic:** Sensors and Platforms: Lidar Sensors**Session:** Lidar Sensors II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Anthony Yu, George Shaw, Anne Marie Novo-Gradac, Steven Li, Luis Ramos-Izquierdo, Jeffrey Guzek, Alberto Rosanova, John Cavanaugh, Alan Lukemire, Glenn Unger, Danny Krebs

View

ADD **Paper Code:** TU4.T04.5**Paper Number:** 3364**Title:** UAVSAR INSTRUMENT: CURRENT OPERATIONS AND PLANNED UPGRADES**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Airborne SAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Yunling Lou, Scott Hensley, Roger Chao, Cathleen Jones, Tim Miller, Ronald Muellerschoen, Yang Zheng

View

ADD **Paper Code:** TU3.T09.2**Paper Number:** 3365**Title:** RAPID DAMAGE ASSESSMENT USING HIGH-RESOLUTION REMOTE SENSING IMAGERY: TOOLS AND TECHNIQUES**Topic:** Invited Sessions: Data Mining and Machine Learning for Remote Sensing**Session:** Data Mining and Machine Learning for Remote Sensing I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Ranga Raju Vatsavai, Mark Tuttle, Budhendra Bhaduri, Eddie Bright, Anil Cheriyyadat, Varun Chandola, J. Graesser

View

ADD **Paper Code:** TH4.T02.3**Paper Number:** 3366**Title:** Ecosystem Structure Measurements from DESDynI: Technological options and data fusion using Small-Footprint Lidar and ALOS/PALSAR data over Central Chile

Topic: Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications

Session: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications II

Time: Thursday, July 28, 15:20 - 17:00

Authors: Josef Kellndorfer, Oliver Cartus, Scott Goetz, Wayne S. Walker, Ralph Dubayah, Markus Rombach, Sergio Gonzales

View

ADD

Paper Code: WEP.T.3

Paper Number: 3367

Title: VALIDATING SNOW COVER PRODUCT FROM NPP VIIRS

Topic: Land: Land Ice and Snow

Session: US Joint Polar Satellite System III

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Peter Romanov, Igor Appel

View

ADD

Paper Code: TH1.T05.4

Paper Number: 3368

Title: IMPACT AND MODELING OF TOPOGRAPHIC EFFECTS ON P-BAND SAR BACKSCATTER FROM BOREAL FORESTS

Topic: Land: Forests and Vegetation

Session: SAR/Lidar Sensing III

Time: Thursday, July 28, 08:20 - 10:00

Authors: Gustaf Sandberg, Maciej Soja, Lars M. Ulander

View

ADD

Paper Code: FR4.T08.2

Paper Number: 3370

Title: SPECTRAL LWIR IMAGING FOR REMOTE FACE DETECTION

Topic: Invited Sessions: Hyperspectral Detection of Difficult Targets

Session: Hyperspectral Detection of Difficult Targets

Time: Friday, July 29, 15:20 - 17:00

Authors: Dalton Rosario

View

ADD

Paper Code: WE2.T01.4

Paper Number: 3371

Title: NEW DIFFERENTIAL SAR TOMOGRAPHY FUNCTIONALITIES FOR PROBING 3D FOREST STRUCTURE AND DYNAMIC PROCESSES

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Tomography

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Fabrizio Lombardini, Francesco Cai

View

ADD

Paper Code: MO3.T02.1

Paper Number: 3373

Title: RECENT ADVANCES IN SCATTERING MODEL-BASED DECOMPOSITIONS: AN OVERVIEW

Topic: Invited Sessions: Advanced Methods for Polarimetric SAR information extraction

Session: Advanced Methods for Polarimetric SAR Information Extraction I

Time: Monday, July 25, 13:20 - 15:00

Authors: Jong-Sen Lee, Thomas Ainsworth, Yanting Wang

View

ADD

Paper Code: WE4.T08.3

Paper Number: 3375

Title: COMPRESSIVE SENSING FOR IMAGE FUSION – WITH APPLICATION TO PAN-SHARPENING

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Fusion and Super-Resolution

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Xiao Xiang Zhu, Xuan Wang, Richard Bamler

ViewADD **Paper Code:** MO3.T04.4**Paper Number:** 3376**Title:** Joint Polar Satellite System (JPSS) Environmental Data Record Validation Program for the NPP Cross-Track Infrared Microwave Sounding Suite (CRIMSS)**Topic:** Atmosphere: Atmospheric Sounding**Session:** US Joint Polar Satellite System I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Nicholas Nalli, Christopher Barnet, Lihang Zhou, Murty Divakarla, Degui Gu**View**ADD **Paper Code:** TH4.T05.2**Paper Number:** 3378**Title:** TUZ Gölü SITE CHARACTERISTICS**Topic:** Invited Sessions: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Session:** Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Larry Leigh, Dennis Helder, Irina Behnert, Andrew Deadman, Nigel Fox, Uğur Murat Leloğlu, Hilal Özen, Derek Griffith**View**ADD **Paper Code:** TUP.G.5**Paper Number:** 3379**Title:** MULTI-VIEWING FOR IMPROVED HIGH RESOLUTION SAR IMAGE INTERPRETATION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Information Extraction from RADAR and SAR Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Katrin Molch, Gottfried Schwarz, Mihai Datcu**View**ADD **Paper Code:** TUP.T.7**Paper Number:** 3380**Title:** WHAT IS THE VALUE ADDED OF 4 BANDS WITHIN THE SUBMETRIC REMOTE SENSING OF TROPICAL COASTSCAPE? QUICKBIRD-2 VS WORLDVIEW-2**Topic:** Environmental Applications: Coastal and Wetlands**Session:** Coastal and Wetlands II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Antoine Collin, Serge Planes**View**ADD **Paper Code:** WE2.T01.2**Paper Number:** 3381**Title:** SINGLE-LOOK SUPERRESOLUTION URBAN 3-/4-D TOMOGRAPHY ADVANCES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Tomography**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Fabrizio Lombardini, Francesco Cai, Davide Pasculli**View**ADD **Paper Code:** TU4.T08.5**Paper Number:** 3383**Title:** A PRINCIPAL COMPONENT-BASED RADIATIVE TRANSFER MODEL AND ITS APPLICATION TO HYPERSPECTRAL REMOTE SENSING**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Xu Liu, Wan Wu, Hui Li, Daniel Zhou, Allen Larar, Ping Yang**View****Paper Code:** WE2.T01.1**Paper Number:** 3384

ADD

Title: WITHIN THE RESOLUTION CELL: SUPER-RESOLUTION IN TOMOGRAPHIC SAR IMAGING

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Tomography

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Xiao Xiang Zhu, Richard Bamler

View

ADD

Paper Code: MOP.U.6

Paper Number: 3385

Title: A MULTIPLE INSTANCE LEARNING APPROACH FOR LANDMINE DETECTION USING GROUND PENETRATING RADAR

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications II

Time: Monday, July 25, 17:00 - 18:30

Authors: Andrew Kareem, Hichem Frigui

View

ADD

Paper Code: TUP.Y.5

Paper Number: 3390

Title: A FUNDAMENTAL CLIMATE DATA RECORD OF INTERCALIBRATED BRIGHTNESS TEMPERATURE DATA FROM SSM/I AND SSMIS

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Microwave Radiometry Missions and Instrument Performance I

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Wesley Berg, Matthew Sapiano, Christian Kummerow, Jennifer Horsman, Fuhzong Weng

View

ADD

Paper Code: WEP.T.2

Paper Number: 3392

Title: THE US JOINT POLAR SATELLITE SYSTEM (JPSS) CROSS-TRACK INFRARED SOUNDER (CRIS) PREDICTED SENSOR PERFORMANCE, CALIBRATION, AND CALVAL OVERVIEW

Topic: Atmosphere: Atmospheric Sounding

Session: US Joint Polar Satellite System III

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Vladimir Zavyalov, Chad Fish, Gail Bingham, Mark Esplin, Mark Greenman, Deron Scott, Tim Nielson

View

ADD

Paper Code: MO4.T01.3

Paper Number: 3393

Title: QUANTIFYING THE EFFECTS OF WIND ON POLARIMETRIC SAR and IFSAR TREE HEIGHT ESTIMATION

Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling

Session: Surface Scattering and Radiative Transfer

Time: Monday, July 25, 15:20 - 17:00

Authors: Michael Benson, Leland Pierce, Kamal Sarabandi

View

ADD

Paper Code: MOP.D.3

Paper Number: 3394

Title: PRELIMINARY RESULTS OF GLRT MOVING TARGETS DETECTION ON TERRASAR-X DATA

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: High Resolution SAR

Time: Monday, July 25, 17:00 - 18:30

Authors: Alessandra Budillon, Annarita Evangelista, Vito Pascazio, Gilda Schirinzi

View

Paper Code: MO3.T06.4

Paper Number: 3396

Title: LANDMINE DETECTION USING AN ENSEMBLE OF CONTINUOUS HMMS WITH MULTIPLE FEATURES

ADD

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Systems
Time: Monday, July 25, 13:20 - 15:00
Authors: Anis Hamdi, Hichem Frigui

View

ADD

Paper Code: WE2.T03.2 **Paper Number:** 3398
Title: Evaluation of the Soil Moisture Active Passive Mission (SMAP) Combined Radar-Radiometer Soil Moisture Algorithm
Topic: Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications
Session: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications II
Time: Wednesday, July 27, 10:20 - 12:00
Authors: Narendra Das, Dara Entekhabi, Steven Chan, Seungbum Kim, Eni Njoku, Roy Dunbar, Jiancheng Shi

View

ADD

Paper Code: MO3.T03.1 **Paper Number:** 3399
Title: SMOS SOIL MOISTURE PRODUCT EVALUATION OVER VARIOUS VALIDATION/CALIBRATION SITES
Topic: Land: Soils and Soil Moisture
Session: SMOS Soil Moisture Validation
Time: Monday, July 25, 13:20 - 15:00
Authors: Yann H. Kerr, Claire Gruhier, Arnaud Mialon, Silvia Juglea, Ahmad Albitar, Simone Bircher, Thierry Pellarin

View

ADD

Paper Code: TU3.T04.2 **Paper Number:** 3400
Title: IMPROVED PROCESSING OF THE CASIE SAR DATA
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: SAR Missions and Instruments III
Time: Tuesday, July 26, 13:20 - 15:00
Authors: Craig Stringham, David G. Long

View

ADD

Paper Code: WE4.T08.1 **Paper Number:** 3401
Title: INTEGRATION OF COLORIZED SINGLE-POL SAR DATA INTO OPTICAL IMAGE MOSAICS
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Fusion and Super-Resolution
Time: Wednesday, July 27, 15:20 - 17:00
Authors: Oliver Lang, Parivash Lumsdon

View

ADD

Paper Code: WEP.W.6 **Paper Number:** 3403
Title: LANDSAT DATA CONTINUITY MISSION
Topic: Sensors and Platforms: Others
Session: Missions and Instruments I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Brian Markham, James Irons, Philip Dabney

View

ADD

Paper Code: WE4.T10.4 **Paper Number:** 3405
Title: SINGULAR VALUE DECOMPOSITION APPLIED ON ALTIMETER WAVEFORMS
Topic: Oceans: Ocean Altimetry
Session: Ocean Altimetry I
Time: Wednesday, July 27, 15:20 - 17:00

[View](#)ADD

Authors: Pierre Thibaut, Jean Christophe Poisson, Annabelle Ollivier, François Boy, Nicolas Picot

Paper Code: FR1.T05.2

Paper Number: 3410

Title: A METHOD FOR IMPROVING CALIBRATION OF LARGE SCALE HYPERSPECTRAL DATASETS: THE AFGHANISTAN HYMAP DATASET

Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors

Session: Passive Optical and Hyperspectral Sensors III

Time: Friday, July 29, 08:20 - 10:00

Authors: Todd Hoefen, Raymond Kokaly, Trude King

[View](#)ADD

Paper Code: MOP.R.5

Paper Number: 3412

Title: USE OF HIGH-RESOLUTION MULTISPECTRAL IMAGERY ACQUIRED WITH AN AUTONOMOUS UNMANNED AERIAL VEHICLE TO QUANTIFY THE SPREAD OF AN INVASIVE WETLANDS SPECIES

Topic: Land: Wetlands and Inland Waters

Session: Wetlands and Inland Waters I

Time: Monday, July 25, 17:00 - 18:30

Authors: Bushra Zaman, Austin Jensen, Mac McKee

[View](#)ADD

Paper Code: WE4.T01.3

Paper Number: 3413

Title: ARTIFACT REDUCTION IN SAR COMPRESSIVE SAMPLING TOMOGRAPHY

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Compressive Sensing and Dimensionality Reduction

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Alessandra Budillon, Gilda Schirinzi

[View](#)ADD

Paper Code: WEP.C.7

Paper Number: 3414

Title: FEATURE SELECTION AND IMAGE CLASSIFICATION USING ROUGH SETS THEORY

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Classification I

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Alex Sandro Aguiar Pessoa, Stephan Stephany, Leila Maria Garcia Fonseca

[View](#)ADD

Paper Code: WE3.T05.4

Paper Number: 3415

Title: REGIONAL TO GLOBAL SCALE MEDIUM RESOLUTION MAPPING OF FOREST HEIGHT, BIOMASS AND CARBON FROM MULTI-SOURCE SATELLITE AND FIELD DATA SETS

Topic: Land: Forests and Vegetation

Session: Analysis Methods, Classification, and Sensor Fusion II

Time: Wednesday, July 27, 13:20 - 15:00

Authors: Josef Kellndorfer, Wayne S. Walker, Tina Cormier, Jesse Bishop, Greg Fiske, Elizabeth LaPoint, Alessandro Baccini, Oliver Cartus, Scott Goetz, Francesco Holecz, Nadine Laporte, Richard Houghton

[View](#)ADD

Paper Code: MO4.T04.2

Paper Number: 3416

Title: PRELAUNCH ASSESSMENT OF THE NORTHROP GRUMMAN VIIRS CLOUD MASK.

Topic: Atmosphere: Precipitation and Clouds

Session: US Joint Polar Satellite System II

Time: Monday, July 25, 15:20 - 17:00

[View](#)ADD **Authors:** Thomas Kopp, Keith Hutchison, Andrew Heidinger, Richard Frey**Paper Code:** WEP.U.6**Paper Number:** 3420**Title:** USING A MULTISPECTRAL AUTONOMOUS UNMANNED AERIAL REMOTE SENSING PLATFORM (AGGIEAIR) FOR RIPARIAN AND WETLANDS APPLICATIONS**Topic:** Sensors and Platforms: UAV and Airborne Platforms**Session:** Remote Sensing using Unmanned Aerial Vehicles**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Austin Jensen, Thomas Hardy, Mac Mckee, Yangquan Chen[View](#)ADD **Paper Code:** MOP.I.5**Paper Number:** 3421**Title:** TECHNIQUES BASED ON SUPPORT VECTOR MACHINES FOR CLOUD DETECTION ON QUICKBIRD SATELLITE IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Riccardo Rossi, Roberto Basili, Fabio Del Frate, Matteo Luciani, Francesco Mesiano[View](#)ADD **Paper Code:** MOP.K.2**Paper Number:** 3423**Title:** REGISTRATION OF VECTOR DATA AND AERIAL THERMAL IMAGES USING MODIFIED MUTUAL INFORMATION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Registration and Change Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Koen Douterloigne, Sidharta Gautama, Wilfried Philips[View](#)ADD **Paper Code:** TH4.T08.1**Paper Number:** 3424**Title:** CRITICAL CLASS ORIENTED ACTIVE LEARNING FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Machine Learning for the Classification of Hyperspectral Data**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Wei Di, Melba M. Crawford[View](#)ADD **Paper Code:** FR3.T01.2**Paper Number:** 3425**Title:** IMPROVING SAR TOMOGRAPHY PERFORMANCE USING EFFICIENT SENSOR CONFIGURATIONS**Topic:** Advances in Analysis Techniques (Theoretical): Bistatic SAR**Session:** Bistatic SAR II**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Laurent Ferro-Famil, Diego Cristallini, Debora Pastina, Pierfrancesco Lombardo[View](#)ADD **Paper Code:** WE1.T05.1**Paper Number:** 3426**Title:** SIMULATED SEASONAL SPATIO-TEMPORAL PATTERNS OF SOIL MOISTURE, TEMPERATURE, AND NET RADIATION IN A DECIDUOUS FOREST**Topic:** Land: Forests and Vegetation**Session:** Modeling Approaches**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Jerrell R. Ballard, Jr, Stacy E. Howington, Pasquale Cinnella, James A. Smith[View](#)**Paper Code:** TUP.U.5**Paper Number:** 3428

ADD **Title:** ANALYSIS OF BROADBAND THERMAL IMAGES FOR THE DETECTION OF SURFACE UNEXPLODED EXPLOSIVE ORDNANCE (UXO).**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Josée Lévesque, Louis Belhumeur, Jean-Philippe Gagnon, André Villemaire

View

Paper Code: TH3.T03.1**Paper Number:** 3431**Title:** SMOS first results after 18 months in orbit: successes and issuesADD **Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Soil Moisture and Ocean Salinity (SMOS) Mission**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Yann H. Kerr, Philippe Waldteufel, François Cabot, Philippe Richaume, Ali Mahmoodi, Steven Delwart, Jean Pierre Wigneron, Susanne Mecklenburg, Nicolas Reul, Jacqueline Boutin

View

Paper Code: WEP.K.9**Paper Number:** 3432**Title:** ACTIVE AND PASSIVE MULTI-SCALE MICROWAVE REMOTE SENSING OF THE ALASKA ECOLOGICAL TRANSECT: APPLICATION TO SMAP FREEZE/THAW STATE VALIDATION PLANNINGADD **Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Andreas Colliander, Kyle McDonald, Reiner Zimmerman, Erika Podest, Ronny Schroeder, John Kimball, Eni Njoku

View

Paper Code: FR1.T02.4**Paper Number:** 3434**Title:** DESIGN AND OPTIMIZATION ASPECTS FOR REFLECTOR-BASED SYNTHETIC APERTURE RADARADD **Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Advanced SAR Concepts and Mission**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Marwan Younis, Anton Patyuchenko, Sigurd Huber, Gerhard Krieger

View

Paper Code: WEP.T.6**Paper Number:** 3436**Title:** PRE-LAUNCH CHARACTERIZATION OF THE CROSS-TRACK INFRARED AND MICROWAVE SOUNDER SUITE (CRIMSS) ENVIRONMENTAL DATA RECORDS (EDR) PERFORMANCEADD **Topic:** Atmosphere: Atmospheric Sounding**Session:** US Joint Polar Satellite System III**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Lihang Zhou, Christopher Barnet, Degui Gu, Guang Guo, Murty Divakarla

View

Paper Code: WE4.T02.2**Paper Number:** 3437**Title:** POLARIMETRIC METHODS FOR TOMOGRAPHIC IMAGING OF NATURAL VOLUMETRIC MEDIAADD **Topic:** Invited Sessions: Polarimetric Interferometry: Applications with Tandem-X**Session:** Polarimetric Interferometry: Applications with Tandem-X II**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Laurent Ferro-Famil, Yue Huang, Andreas Reigber

View

Paper Code: FR3.T01.3**Paper Number:** 3438**Title:** ANISOTROPY IN OCEAN SCATTERING OF BISTATIC RADAR USING SIGNALS OF OPPORTUNITY

ADD

Topic: Oceans: Ocean Surface Winds and Currents
Session: Bistatic SAR II
Time: Friday, July 29, 13:20 - 15:00
Authors: Rashmi Shah, James Garrison, Michael Grant

View

ADD

Paper Code: WEP.T.9 **Paper Number:** 3439
Title: POST-LAUNCH PERFORMANCE EVALUATION OF THE OMPS SENSORS ON NPP
Topic: Sensors and Platforms: Others
Session: US Joint Polar Satellite System III
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Glen Jaross, Thomas Kelly, David Flittner, Colin Sefort, Richard Buss, Lawrence Flynn

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ADD

Paper Code: WE1.T03.5 **Paper Number:** 3440
Title: CHARACTERIZATION OF LAND SURFACE FREEZE/THAW STATE, TEMPERATURE AND MOISTURE CONTROLS ON ECOSYSTEM PRODUCTIVITY: CARBON CYCLE SCIENCE ADDRESSED WITH NASA'S PROPOSED SOIL MOISTURE ACTIVE/PASSIVE (SMAP) MISSION
Topic: Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications
Session: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications I
Time: Wednesday, July 27, 08:20 - 10:00
Authors: Kyle McDonald, John Kimball

View

ADD

Paper Code: WEP.X.9 **Paper Number:** 3441
Title: PASSIVE MICROWAVE DATA MANAGEMENT AND SEA ICE APPLICATIONS AT NSIDC
Topic: Oceans: Sea Ice
Session: Data Management, Dissemination, Education and Policy
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Amanda Leon, Walt Meier, Donna Scott

View

ADD

Paper Code: TU1.T04.4 **Paper Number:** 3443
Title: SUBSIDENCE MONITORING USING POLARIMETRIC PERSISTENT SCATTERERS INTERFEROMETRY
Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR
Session: Student Paper Contest I
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Víctor Diego Navarro Sánchez, Juan Manuel López Sánchez

View

ADD

Paper Code: MO4.T05.3 **Paper Number:** 3444
Title: RETRAINING MAXIMUM LIKELIHOOD CLASSIFIERS USING A LOW-RANK MODEL
Topic: Land: Land Use and Land Cover Change
Session: Land Use and Land Cover Change II
Time: Monday, July 25, 15:20 - 17:00
Authors: Arnt-Børre Salberg

View

ADD

Paper Code: TH2.T09.2 **Paper Number:** 3445
Title: DOMAIN SEPARATION FOR EFFICIENT ADAPTIVE ACTIVE LEARNING
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Classification II
Time: Thursday, July 28, 10:20 - 12:00

[View](#)ADD **Authors:** Giona Matasci, Devis Tuia, Mikhail Kanevski**Paper Code:** TU1.T05.5**Paper Number:** 3446**Title:** EMPIRICAL MODEL FOR SOIL SALINITY MAPPING FROM SAR DATA**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change V**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Mohamed Grissa, Riadh Abdelfattah, Grégoire Mercier, Mehrez Zribi, Aicha Chahbi, Zohra Lili-Chabaane[View](#)ADD **Paper Code:** WE3.T05.5**Paper Number:** 3448**Title:** MAPPING OF LAND COVER AND ABOVE-GROUND BIOMASS IN THE AMAZON BASIN FROM MULTI-SPECTRAL FUSION OF ALOS/PALSAR AND LANDSAT DATA SOURCES**Topic:** Land: Forests and Vegetation**Session:** Analysis Methods, Classification, and Sensor Fusion II**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Wayne S. Walker, Alessandro Baccini, Josef Kellendorfer, Claudia Stickler, Mindy Sun, Nadine Laporte, Scott Goetz[View](#)ADD **Paper Code:** TUPS.9**Paper Number:** 3449**Title:** ASSESSMENT OF URBAN ECOSYSTEM SERVICES USING MULTI-TEMPORAL REMOTE SENSING OF RAPID EYE AND LIDAR**Topic:** Environmental Applications: Urban and Built Environment**Session:** Urban Remote Sensing**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jan Tigges, Tobia Lakes, Patrick Hostert[View](#)ADD **Paper Code:** TU1.T07.5**Paper Number:** 3450**Title:** GROUND BASED GNSS TOMOGRAPHY: CHALLENGES IN MOUNTAINOUS REGIONS**Topic:** Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology**Session:** GNSS Remote Sensing in Atmosphere, Ocean and Hydrology I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Alain Geiger, Donat Perler, Fabian Hurter, Markus Rothacher[View](#)ADD **Paper Code:** TU4.T04.1**Paper Number:** 3452**Title:** THE ECOSAR P-BAND SYNTHETIC APERTURE RADAR**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Airborne SAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Rafael Rincon, Temilola Fatoyinbo, Guoqing Sun, K. Jon Ranson, Martin Perrine, Manohar Deshapnde, Quenton Bonds[View](#)ADD **Paper Code:** WE3.T07.1**Paper Number:** 3453**Title:** EFFECTS OF UNCERTAINTY IN CLOUD MICROPHYSICS ON PASSIVE MICROWAVE RAINFALL MEASUREMENTS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds III**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Ju-Hye Kim, Dong-Bin Shin[View](#)**Paper Code:** WE4.T06.1**Paper Number:** 3454**Title:** A MERGED GLOBAL DIGITAL TOPOGRAPHIC DATA SET – PROGRESS REPORT

ADD **Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth V**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Michael Kobrick, Thomas Farr, Robert Crippen

View

Paper Code: WE4.T04.2**Paper Number:** 3455**Title:** THE CANADIAN COREH2O SNOW AND ICE (CAN-CSI) EXPERIMENT 2009-2011ADD **Topic:** Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow**Session:** Active/Passive Microwave Remote Sensing of Terrestrial Snow I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Richard Kelly, Claude Duguay, Josh King, Grant Gunn, Andrew Kasurak, Chris Derksen, Peter Toose, Arvids Silis, Alexandre Langlois, Alain Royer, Nick Rutter

View

Paper Code: TH2.T10.4**Paper Number:** 3457**Title:** NOAA ASSESSMENT OF THE OCEANSAT-2 SCATTEROMETERADD **Topic:** Invited Sessions: Spacebased Observation of Ocean Surface Wind and Stress**Session:** Spacebased Observation of Ocean Surface Wind and Stress**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Zorana Jelenak, Paul Chang, Seubson Soisuvarn, Khalil Ahmad, Joseph Sienkiewicz

View

Paper Code: MOP.B.9**Paper Number:** 3458**Title:** Analysis of ISAR imaging using combined MUSIC and ICA algorithmsADD **Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Electromagnetic Modeling of Random Rough Surfaces and Volumes**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Jeffrey Hall, Saibun Tjuatja

View

Paper Code: MO4.T01.2**Paper Number:** 3459**Title:** Like polarization and Cross polarization of Radar remote sensing of soil moisture at L band: 3D numerical simulations of Maxwell equations, Analytical models, and Retrieval Performance in Soil Moisture RetrievalADD **Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Surface Scattering and Radiative Transfer**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Shaowu Huang, Xueyang Duan, Jeff Ouellette, Xiaolan Xu, Tien-Hao Liao, Joel Johnson, Mahta Moghaddam, Leung Tsang

View

Paper Code: FR3.T02.4**Paper Number:** 3460**Title:** BIOMASS RETRIEVAL ALGORITHM BASED ON P-BAND BIOSAR EXPERIMENTS OF BOREAL FORESTADD **Topic:** Invited Sessions: Advances in the retrieval of forest biomass from P-band SAR data: The BIOMASS mission**Session:** Advances in the Retrieval of Forest Biomass from P-band SAR Data: The BIOMASS Mission**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Lars M. Ulander, Gustaf Sandberg, Maciej Soja

View

Paper Code: MOP.P.6**Paper Number:** 3461**Title:** AN ASSESSMENT OF GLOBAL FOREST COVER MAPS USING REGIONAL HIGHER-RESOLUTION REFERENCE DATA SETS

ADD **Topic:** Land: Forests and Vegetation**Session:** Tropical Forests**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xiao-Peng Song, Chengquan Huang, Joseph Sexton, Min Feng, Raghuram Narasimhan, Saurabh Channan, John R. Townshend

View

Paper Code: TH2.T02.3**Paper Number:** 3463**Title:** MARINE SURVEILLANCE WITH RADARSAT-2: SHIP AND OIL SLICK DETECTIONADD **Topic:** Invited Sessions: RADARSAT**Session:** RADARSAT II**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Gordon Staples, Jeff Hurley

View

Paper Code: TUP.P.6**Paper Number:** 3465**Title:** ICESAT OBSERVATIONS OF LONG-PERIOD OCEAN WAVES AND THEIR INTERACTION WITH SEA ICEADD **Topic:** Oceans: Ocean Altimetry**Session:** Ocean Altimetry I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** John Heinrichs

View

Paper Code: MOP.Y.4**Paper Number:** 3467**Title:** CALIBRATION OF THE THERMAL INFRARED SENSOR ON THE LANDSAT DATA CONTINUITY MISSIONADD **Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Kurtis J. Thome, Dennis Reuter, Allen Lunsford, Matthew Montanaro, Ramsey Smith, Zelalem Tesfaye, Brian Wenny

View

Paper Code: FR2.T02.3**Paper Number:** 3469**Title:** PRODUCING SCIENCE-READY RADAR DATASETS FOR THE RETRIEVAL OF FOREST STRUCTURE PARAMETERS FROM BACKSCATTER: CORRECTING FOR TERRAIN TOPOGRAPHY AND CHANGES IN VEGETATION REFLECTIVITYADD **Topic:** Invited Sessions: Mitigaing Terrain Effects on PolSAR Classification**Session:** Mitigating Terrain Effects on PolSAR Classification**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Marc Simard, Bryan Riel, Scott Hensley, Marco Lavallo

View

Paper Code: WEP.B.4**Paper Number:** 3470**Title:** COMPRESSIVE SAMPLING FOR MICROWAVE TOMOGRAPHYADD **Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Roberta Autieri, Michele D'Urso, Stefano Malanga, Vito Pascazio

View

Paper Code: TU2.T02.5**Paper Number:** 3471**Title:** CHARACTERIZATION OF TEMPORAL DECORRELATION FOR RADAR INTERFEROMETRY OF FORESTSADD **Topic:** Invited Sessions: SAR Polarimetry: Theory and Applications**Session:** SAR Polarimetry: Theory and Applications II**Time:** Tuesday, July 26, 10:20 - 12:00

[View](#)ADD **Authors:** Marc Simard, Marco Lavallo, Scott Hensley, Naiara Pinto**Paper Code:** WE4.T07.5**Paper Number:** 3473**Title:** TWO-YEAR ASSESSMENT OF NOWCASTING PERFORMANCE IN THE CASA SYSTEM**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Evan Ruzanski, Venkatachalam Chandrasekar, Delbert Willie[View](#)ADD **Paper Code:** WE1.T10.2**Paper Number:** 3474**Title:** REDUCING SYSTEMATIC ERRORS ON SMOS RETRIEVED SALINITY: CALIBRATION OF BRIGHTNESS TEMPERATURE IMAGES AND FORWARD MODEL IMPROVEMENT**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Salinity**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Jérôme Gourrion, Sébastien Guimbar, Roberto Sabia, Carolina Gabarró, Verónica González, Sergio Montero, Marco Talone, Marcos Portabella, Antonio Turiel, Fernando Pérez, Justino Martínez[View](#)ADD **Paper Code:** TH1.T03.2**Paper Number:** 3475**Title:** ESTAR TO SMOS: DEVELOPMENT OF INTERFEROMETRIC RADIOMETRY FOR REMOTE SENSING FROM SPACE**Topic:** Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers**Session:** Interferometric Synthetic Aperture Microwave Radiometers I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** David Le Vine[View](#)ADD **Paper Code:** TUP.N.3**Paper Number:** 3476**Title:** IMPROVEMENT OF GOCI DATA PROCESSING SYSTEM DURING COMS/GOCI IN-ORBIT TEST**Topic:** Oceans: Ocean Biology (Color) and Water Quality**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Hee-Jeong Han, Seongick Cho, Jae-Hyun Ahn, Joo-Hyung Ryu, Yu-Hwan Ahn[View](#)ADD **Paper Code:** TH4.T05.4**Paper Number:** 3477**Title:** 2010 CEOS FIELD REFLECTANCE INTERCOMPARISONS LESSONS LEARNED**Topic:** Invited Sessions: Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Session:** Recent Advances in Multispectral Sensor In-Flight Calibration: The 2010 Tuz Golu Field Campaign**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Kurtis J. Thome, Nigel Fox[View](#)ADD **Paper Code:** MOP.A.3**Paper Number:** 3478**Title:** INVESTIGATING SPATIAL AGGREGATION TECHNIQUES USING A HETEROGENEOUS RADAR LANDSCAPE SIMULATOR FOR REDUCING UNCERTAINTIES OF SOIL MOISTURE RETRIEVAL FROM SMAP**Topic:** Land: Soils and Soil Moisture**Session:** Electromagnetic Modeling and Data Analysis**Time:** Monday, July 25, 17:00 - 18:30

ViewADD **Authors:** Mariko Burgin, Mahta Moghaddam**Paper Code:** MOP.Y.5**Paper Number:** 3483**Title:** Recent Operational Status of GSICS GEO-LEO and GEO-GEO Inter-Calibrations at NOAA/NESDIS**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Fangfang Yu, Xiangqian Wu, Mitchell Goldberg**View**ADD **Paper Code:** WE2.T04.1**Paper Number:** 3484**Title:** CHARACTERIZATION AND EXTENT OF RANDOMLY-CHANGING RADIO FREQUENCY INTERFERENCE IN ALOS PALSAR DATA**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Calibration**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Franz Meyer, Jeremy Nicoll, Anthony Paul Doulgeris**View**ADD **Paper Code:** FR1.T08.4**Paper Number:** 3485**Title:** STABILIZATION AND GEOREGISTRATION OF AERIAL VIDEO OVER MOUNTAIN TERRAIN BY MEANS OF LIDAR**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis III**Time:** Friday, July 29, 08:20 - 10:00**Authors:** Mark Pritt, Kevin LaTourette**View**ADD **Paper Code:** MO3.T06.2**Paper Number:** 3487**Title:** WIDE BAND STEPPED-FREQUENCY GROUND PENETRATING RADAR**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Takashi Kido, Yuya Yokota, Fumika Kawahara, Motoyuki Sato**View**ADD **Paper Code:** TUP.J.7**Paper Number:** 3488**Title:** IDENTIFYING DAMAGED BUILDINGS FROM HIGH-RESOLUTION SATELLITE IMAGERY IN HAZARDOUS AREAS USING MORPHOLOGICAL OPERATORS**Topic:** Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing**Session:** Advances in Earth Sensing and Applications I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Chandana Dinesh Parape, Masayuki Tamura**View**ADD **Paper Code:** TH1.T04.1**Paper Number:** 3489**Title:** COMPARISON OF MEASURED AND MODELED SNOW BRIGHTNESS TEMPERATURE USING VARIOUS FIELD TECHNIQUES FOR GRAIN SIZE MEASUREMENT**Topic:** Invited Sessions: Active/Passive Microwave Remote Sensing of Terrestrial Snow**Session:** Active/Passive Microwave Remote Sensing of Terrestrial Snow II**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Edward J. Kim, Michael Durand, Noah Molotch, Daniel F Berisford, Steven Margulis, Zoe Courville**View****Paper Code:** TH2.T07.2**Paper Number:** 3490

ADD

Title: VERIFICATION OF POINTING AND ANTENNA PATTERN KNOWLEDGE OF SUPERCONDUCTING SUBMILLIMETER-WAVE LIMB-EMISSION SOUNDER (SMILES)

Topic: Atmosphere: Atmospheric Sounding

Session: Atmospheric Sensing Techniques I

Time: Thursday, July 28, 10:20 - 12:00

Authors: Makoto Suzuki, Satoshi Ochiai, Chihiro Mitsuda, Koji Imai, Takeshi Manabe, Kenichi Kikuchi, Toshiyuki Nishibori, Naohiro Manago, Yoshitaka Iwata, Takuki Sano, Masato Shiotani

View

Paper Code: FR2.T03.5

Paper Number: 3491

ADD

Title: SOLID-STATE, HIGH REPETITION RATE TM: FIBER PUMPED HO:YLF 2- μ M COHERENT LASER TRANSMITTER FOR AIR AND SPACE-BASED CO₂ MEASUREMENTS

Topic: Sensors and Platforms: Lidar Sensors

Session: Lidar Sensors III

Time: Friday, July 29, 10:20 - 12:00

Authors: Upendra Singh, Yingxin Bai, Jirong Yu, Mulugeta Petros, Songsheng Chen

View

Paper Code: TUP.O.9

Paper Number: 3493

ADD

Title: DEPENDENCY OF BACKSCATTERING FROM OCEAN SURFACE ON WIND DIRECTION BY USING AIRBORNE SAR -- LOW WIND SPEED CASE --

Topic: Oceans: Ocean Surface Winds and Currents

Session: Ocean Surface Winds and Currents III

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Akitsugu Nadai, Toshihiko Umehara, Takeshi Matsuoka, Makoto Satake, Tatsuharu Kobayashi, Seiho Uratsuka

View

Paper Code: WEPT.7

Paper Number: 3494

ADD

Title: CALIBRATION AND VALIDATION ON-ORBIT PLAN OF THE NPOESS CROSTRACK INFRARED SOUNDER (CRIS)

Topic: Atmosphere: Atmospheric Sounding

Session: US Joint Polar Satellite System III

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Deron Scott, Gail Bingham, Chad Fish, Harri Latvakowski, Mark Greenman, Mark Esplin, Vladimir Zavyalov, Yong Han

View

Paper Code: WE1.T03.3

Paper Number: 3495

ADD

Title: THE PLANNED SOIL MOISTURE ACTIVE PASSIVE (SMAP) MISSION L-BAND RADAR/RADIOMETER INSTRUMENT

Topic: Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications

Session: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications I

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Michael Spencer, Kevin Wheeler, Samuel Chan, Jeffrey Piepmeier, Derek Hudson, James Medeiros

View

Paper Code: TH3.T05.5

Paper Number: 3496

ADD

Title: GOCI DATA PROCESSING SYSTEM : ALGORITHMS AND CAL/VAL

Topic: Invited Sessions: GOCI (Geostationary Ocean Color Imager) Mission operations and applications

Session: GOCI (Geostationary Ocean Color Imager) Mission and Applications

Time: Thursday, July 28, 13:20 - 15:00

[View](#)ADD **Authors:** Joo-Hyung Ryu, Jeong-Eon Moon, Young Baek Son, Hee-Jeong Han, Yu-Hwan Ahn**Paper Code:** WE3.T06.2**Paper Number:** 3502**Title:** ANALYSIS OF THE 1992-2010 DYNAMIC DEFORMATION AFFECTING THE YELLOWSTONE CALDERA**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth IV**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Giovanni Zeni, Antonio Pepe, Pietro Tizzani, Francesco Casu, Michele Manunta, Riccardo Lanari[View](#)ADD **Paper Code:** TUP.Y.8**Paper Number:** 3503**Title:** The Moon Mineralogy Mapper (M3) Science Imaging Spectrometer Mission and Discovery of Water/Hydroxyl on the Illuminated Surface of the Moon**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Robert Green[View](#)ADD **Paper Code:** WE1.T01.3**Paper Number:** 3504**Title:** Polarimetric Decomposition Analysis of the Deepwater Horizon Oil Slick Using L-band UAVSAR Data**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** POLSAR Applications**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Cathleen Jones, Brent Minchew, Benjamin Holt[View](#)ADD **Paper Code:** TUP.B.3**Paper Number:** 3508**Title:** Characterizing Land Surface Change and Levee Stability in the Sacramento-San Joaquin Delta using UAVSAR Radar Imagery**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Cathleen Jones, Gerald Bawden, Steven Deverel, Joel Dudas, Scott Hensley[View](#)ADD **Paper Code:** FR3.T02.5**Paper Number:** 3510**Title:** BIOMASS End-to-End Mission Performance Simulator**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** Advances in the Retrieval of Forest Biomass from P-band SAR Data: The BIOMASS Mission**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Paco López-Dekker, Francesco De Zan, Thomas Börner, Marwan Younis, Konstantinos Papathanassiou, Tomas Guardabrazo, Valerie Bourlon, Sophie Ramongassie, Nicolas Taveneau, Lars M. Ulander, Daniel Murdin, Neil Rogers, Shaun Quegan, Raffaella Franco[View](#)ADD **Paper Code:** MO4.T06.4**Paper Number:** 3511**Title:** ESTIMATION OF BIOMASS OF TREE ROOTS BY GPR WITH HIGH ACCURACY POSITIONING SYSTEM**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Applications**Time:** Monday, July 25, 15:20 - 17:00

[View](#)ADD

Authors: Yuya Yokota, Masayoshi Matsumoto, Ahmed Gaber, Mark Grasmueck, Motoyuki Sato

Paper Code: MOP.U.7

Paper Number: 3513

Title: EM WAVEFIELD TRANSFORM AND ITS DEPTH MIGRATION IN MT EXPLORATION AND GPR

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications II

Time: Monday, July 25, 17:00 - 18:30

Authors: Shi-Kun Dai, Jian-Guo Zhao, Motoyuki Sato

[View](#)ADD

Paper Code: MO4.T01.4

Paper Number: 3514

Title: CONICAL ELECTROMAGNETIC WAVES DIFFRACTION FROM SASTRUGI TYPE SURFACES OF LAYERED SNOW DUNES ON GREENLAND ICE SHEETS IN PASSIVE MICROWAVE REMOTE SENSING

Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling

Session: Surface Scattering and Radiative Transfer

Time: Monday, July 25, 15:20 - 17:00

Authors: Wenmo Chang, Leung Tsang

[View](#)ADD

Paper Code: WEP.U.7

Paper Number: 3515

Title: EMPLOYING AUTONOMOUS TECHNOLOGIES IN GLOBAL EARTH OBSERVATIONS

Topic: Sensors and Platforms: UAV and Airborne Platforms

Session: Remote Sensing using Unmanned Aerial Vehicles

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Malcolm Blow, Abdollah Homaifar

[View](#)ADD

Paper Code: TUP.F.6

Paper Number: 3516

Title: The NASA Decadal Survey HypSIIRI Mission: Global Imaging Spectroscopy and Multi-Spectral Thermal Measurements for Climate and Earth Science Objectives

Topic: Land: Land Ice and Snow

Session: Methods and Efficient Implementations in Hyperspectral Imagery

Time: Tuesday, July 26, 17:00 - 18:30

Authors: Robert Green

[View](#)ADD

Paper Code: MOP.P.4

Paper Number: 3517

Title: RESEARCH ON TROPICAL FOREST ABOVEGROUND BIOMASS ESTIMATING USING ICESAT/GLAS DATA IN XISHUANGBANNA, SOUTHWEST CHINA

Topic: Land: Forests and Vegetation

Session: Tropical Forests

Time: Monday, July 25, 17:00 - 18:30

Authors: Hong Chi, Zhifeng Guo, Guoqing Sun

[View](#)ADD

Paper Code: FR1.T01.3

Paper Number: 3518

Title: DUAL POLARISED ENTROPY/ALPHA DECOMPOSITION AND COHERENCE OPTIMISATION FOR IMPROVED FOREST HEIGHT MAPPING

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: POLINSAR

Time: Friday, July 29, 08:20 - 10:00

Authors: Zheng-Shu Zhou, Peter Caccetta, Eric Lehmann, Alex Held, Stephen McNeill, Anthea Mitchell, Anthony Milne, Ian Tapley, Kim Lowell

ViewADD **Paper Code:** FR4.T07.5**Paper Number:** 3519**Title:** TAILING MODELLED AND MEASURED SPECTRUM FOR MINE TAILING MAPPING IN TUNISIAN SEMI-ARID CONTEXT**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Nouha Mezned, Sâadi Abdeljaoued, Mohamed Rached Boussema**View**ADD **Paper Code:** MO3.T06.3**Paper Number:** 3520**Title:** CALIBRATION TECHNIQUE FOR BROADBAND ELECTROMAGNETIC INDUCTION SENSORS**Topic:** Environmental Applications: Subsurface Sensing/Ground Penetrating Radar**Session:** Subsurface Environmental Sensing: Systems**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Waymond Scott**View**ADD **Paper Code:** TU3.T09.3**Paper Number:** 3522**Title:** GOPHER: GLOBAL OBSERVATION OF PLANETARY HEALTH AND ECOSYSTEM RESOURCES**Topic:** Invited Sessions: Data Mining and Machine Learning for Remote Sensing**Session:** Data Mining and Machine Learning for Remote Sensing I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Ashish Garg, Varun Mithal, Yashu Chamber, Ivan Brugere, Vijay Chaudhari, Marc Dunham, Vikrant Krishna, Sairam Krishnamurthy, Sruthi Vangala, Shyam Boriah, Michael Steinbach, Vipin Kumar, Albert Cho, JD Stanley, Teji Abraham, Juan Carlos Castilla-Rubio, Christopher Potter, Steven Klooster**View**ADD **Paper Code:** FR4.T09.2**Paper Number:** 3523**Title:** SURVIVOR-LOCATION-ENABLED RESCUE RADAR SYSTEM USING ARRAY ANTENNAS**Topic:** Advances in Analysis Techniques (Theoretical): Others**Session:** Advances in Analysis Techniques II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Taichi Murakami, Yoshimitsu Aoki, Hideo Saito, Iwaki Akiyama, Shinji Gotoh**View**ADD **Paper Code:** TUP.O.2**Paper Number:** 3524**Title:** THE IMPACT OF THERMAL STRATIFICATION AND WIND STRESS ON SEA SURFACE FEATURES IN SAR IMAGERY**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Atsushi Fujimura, Silvia Matt, Alexander Soloviev, Chris Maingot, Shin Rhee**View**ADD **Paper Code:** WEP.J.11**Paper Number:** 3526**Title:** PENETRATION DEPTH EFFECT ON DIURNAL VARIATION OF BRIGHTNESS TEMPERATURE AND LAND SURFACE EMISSIVITY RETRIEVAL**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Hamidreza Norouzi, Marouane Temimi, Marzieh Azarderakhsh, Reza Khanbilvardi

ViewADD **Paper Code:** MOP.I.9**Paper Number:** 3527**Title:** AN INTRODUCTORY LOOK AT HANDLING POLARIZATION CHARACTERIZATION IN THE LEVEL 1 CALIBRATION PRODUCT IN THE NPP VIIRS SENSOR.**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Bruce Guenther, Frank DeLuccia, Bo-Cai Gao, Peng-Wang Zhai, Robert Lucke**View**ADD **Paper Code:** TUP.U.6**Paper Number:** 3529**Title:** The Distribution of Aerosol Optical Depth Retrieved by TM Imagery over Beijing Urban Area , China**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Wenhui Zhao, Huili Gong, Wenji Zhao, Xiaojuan Li**View**ADD **Paper Code:** TU4.T07.1**Paper Number:** 3530**Title:** GLOBAL RETRIEVAL OF DROP SIZE DISTRIBUTION: Past, Present and Future**Topic:** Invited Sessions: Remote Sensing of Precipitation from Space - The Past, Present and Future**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Venkatachalam Chandrasekar, Minda Le**View**ADD **Paper Code:** WEP.L.5**Paper Number:** 3531**Title:** SAR INTERFEROMETRY AND OFFSET TRACKING APPROACHES FOR GLACIER MOVEMENT ESTIMATION IN THE HIMALAYA**Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Vijay Kumar, Gopalan Venkataraman, Yngvar Larsen, Kjell Høgdal**View**ADD **Paper Code:** TUP.F.11**Paper Number:** 3532**Title:** Random-Projection-based Dimensionality Reduction and Decision Fusion for Hyperspectral Target Detection**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Methods and Efficient Implementations in Hyperspectral Imagery**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Qian Du, James Fowler, Ben Ma**View**ADD **Paper Code:** MO3.T04.5**Paper Number:** 3537**Title:** PRE-LAUNCH CHARACTERIZATION OF THE CLOUDS AND THE EARTH'S RADIANT ENERGY SYSTEM (CERES) FLIGHT MODEL 5 (FM5) INSTRUMENT ON NPP**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** US Joint Polar Satellite System I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Susan Thomas, Kory Priestley, Mohan Shankar, Nathaniel Smith, Mark Timcoe

ViewADD **Paper Code:** TU3.T03.2**Paper Number:** 3538**Title:** ACTIVE AND PASSIVE MICROWAVE OBSERVATIONS TO IMPROVE SOIL MOISTURE PREDICTIONS UNDER DYNAMIC VEGETATION CONDITIONS**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Jasmeet Judge, Roger De Roo, Mahta Moghaddam, Alejandro Monsiváis-Huertero, Pang-Wei Liu, Anthony England, Karthik Nagarajan**View**ADD **Paper Code:** TU3.T03.5**Paper Number:** 3541**Title:** TROPICAL CYCLONE RAIN OBSERVATIONS WITH AIRCRAFT PASSIVE AND ACTIVE MICROWAVE INSTRUMENTS**Topic:** Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy**Session:** Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Paul Chang, James Carswell, Zorana Jelenak, Stephen Frasier**View**ADD **Paper Code:** WE2.T09.2**Paper Number:** 3545**Title:** ADAPTIVE MORPHOLOGICAL FILTERING FOR DEM GENERATION**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** DEM and Feature Extraction**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Kyohyouk Kim, Jie Shan**View**ADD **Paper Code:** TH3.T05.2**Paper Number:** 3546**Title:** GOCI: EARLY IN-ORBIT PERFORMANCES**Topic:** Sensors and Platforms: Others**Session:** GOCI (Geostationary Ocean Color Imager) Mission and Applications**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Han-Dol Kim, Gm-Sil Kang, Joo-Hyung Ryu, Pierre Coste, Philippe Meyer**View**ADD **Paper Code:** MO3.T01.5**Paper Number:** 3547**Title:** BACKSCATTERING FROM SEA SURFACE WITH PRECIPITATION: MODEL ANALYSES AT C- AND Ku-BAND**Topic:** Invited Sessions: Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Session:** Microwave Scattering and Emission Models and Applications, in honor of Professor Adrian K. Fung**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Saibun Tjuatja, Jiamei Li, Xiaolong Dong**View**ADD **Paper Code:** TH3.T04.1**Paper Number:** 3548**Title:** THE AMSR SNOW PRODUCT: DEVELOPMENTS AND IMPROVEMENTS ON SNOW DEPTH RETRIEVALS**Topic:** Land: Land Ice and Snow**Session:** Passive Microwave of Snow and Its Application**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Richard Kelly**View****Paper Code:** TH3.T04.2**Paper Number:** 3549

ADD **Title:** SNOWPACK AND FRESHWATER ICE SENSING USING AUTOCORRELATION RADIOMETRY**Topic:** Land: Land Ice and Snow**Session:** Passive Microwave of Snow and Its Application**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Anthony England, Hamid Nejati, Amanda Mims

View

Paper Code: FR3.T03.4**Paper Number:** 3550ADD **Title:** DEVELOPMENT OF INTERNALLY-CALIBRATED, MMIC-BASED MILLIMETER-WAVE RADIOMETERS OPERATING AT 130 AND 166 GHZ IN SUPPORT OF THE SWOT MISSION**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometry Missions and Instrument Performance III**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Alexander Lee, Darrin Albers, Steven C. Reising, Pekka Kangaslahti, Shannon Brown, Douglas Dawson, Todd Gaier, Oliver Montes, Daniel Hoppe, Behrouz Khayatian

View

Paper Code: WE2.T03.3**Paper Number:** 3551ADD **Title:** RADIO FREQUENCY INTERFERENCE MITIGATION FOR THE PLANNED SMAP RADAR AND RADIOMETER**Topic:** Invited Sessions: NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications**Session:** NASA Soil Moisture Active and Passive Mission (SMAP) Science Data Products and User Applications II**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Michael Spencer, Samuel Chan, Eric Belz, Jeffrey Piepmeier, Priscilla Mohammed, Edward J. Kim, Joel Johnson

View

Paper Code: TUP.D.6**Paper Number:** 3552ADD **Title:** Hyperspectral Image Classification Using Spectral and Spatial Information Based Linear Discriminant Analysis**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Cheng-Hsuan Li, Hui-Shan Chu, Bor-Chen Kuo, Chin-Teng Lin

View

Paper Code: TH2.T05.2**Paper Number:** 3553ADD **Title:** ASTER/TIR VICARIOUS CALIBRATION ACTIVITIES IN THE LAST 11 YEARS**Topic:** Invited Sessions: ASTER**Session:** ASTER**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Hideyuki Tonooka, Simon Hook, Tsuneo Matsunaga, Soushi Kato, Elsa Abbott, Howard Tan

View

Paper Code: MOP.Z.9**Paper Number:** 3554ADD **Title:** VICARIOUS CALIBRATION OF GOES VISIBLE CHANNEL USING GOME-2**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Passive Optical and Hyperspectral Sensors II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Xiangqian Wu, Haifeng Qian, Fangfang Yu, Trevor Beck

View

Paper Code: WE2.T05.1**Paper Number:** 3556

ADD

Title: A GLOBAL MULTITEMPORAL ANALYSIS OF VEGETATION INDEX QUALITY BASED ON MODIS QUALITY LAYERS

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis II

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Sergio Bernardes, Alfredo Huete, Ramon Moraes de Freitas, Yosio Shimabukuro, Marguerite Madden

View

Paper Code: WE2.T10.5

Paper Number: 3557

ADD

Title: INTERFEROMETRIC PROCESSING OF FRESH WATER BODIES FOR SWOT

Topic: Invited Sessions: The Surface Water and Ocean Topography (SWOT) Mission.

Session: The Surface Water and Ocean Topography (SWOT) Mission I

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Ernesto Rodriguez, Delwyn Moller, Xiaoqing Wu, Konstantinos Andreadis

View

Paper Code: WE4.T09.5

Paper Number: 3558

ADD

Title: A NEW ALGORITHM TO AUTOMATICALLY DETERMINE THE BOUNDARY OF THE SCATTER PLOT IN THE TRIANGLE METHOD FOR EVAPOTRANSPIRATION RETRIEVAL

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: Parameter Estimation

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Hongbo Su, Jing Tian, Shaohui Chen, Renhua Zhang, Rong Yuan, Yongmin Yang, Xinzhai Tang, Julio Garcia

View

Paper Code: TH3.T02.4

Paper Number: 3559

ADD

Title: POTENTIAL CONTRIBUTIONS OF THE DESDYNI MISSION TO IONOSPHERIC RESEARCH

Topic: Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications

Session: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications I

Time: Thursday, July 28, 13:20 - 15:00

Authors: Franz Meyer, Junsu Kim, Ramon Brcic, Xiaoqing Pi

View

Paper Code: TH3.T01.5

Paper Number: 3560

ADD

Title: POLARIMETRIC IMPLICATIONS OF INCIDENCE ANGLE VARIABILITY FOR UAVSAR

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR II

Time: Thursday, July 28, 13:20 - 15:00

Authors: Rick Guritz, Don Atwood, Jeremy Nicoll

View

Paper Code: TH1.T10.4

Paper Number: 3561

ADD

Title: AIRBORNE POLARIMETRIC, TWO-COLOR LASER ALTIMETER MEASUREMENTS OF LAKE ICE COVER: A PATHFINDER FOR NASA'S ICESAT-2 SPACEFLIGHT MISSION

Topic: Oceans: Sea Ice

Session: Sea Ice II

Time: Thursday, July 28, 08:20 - 10:00

Authors: David Harding, Philip Dabney, Susan Valett, Anthony Yu, Aleksey Vasilyev, April Kelly

ViewADD **Paper Code:** MO4.T03.3**Paper Number:** 3562**Title:** UNDERSTANDING SOIL MOISTURE TRANSPORT IN SANDY SOILS FROM MUTI-FREQUENCY MICROWAVE OBSERVATIONS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture from Microwave Time Series**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Pang-Wei Liu, Roger De Roo, Anthony England, Jasmeet Judge**View**ADD **Paper Code:** FR3.T08.5**Paper Number:** 3563**Title:** MANIFOLD ALIGNMENT FOR MULTITEMPORAL HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Advances in the Analysis of Hyperspectral Data**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Hsiuhan Lexie Yang, Melba M. Crawford**View**ADD **Paper Code:** WEP.O.9**Paper Number:** 3565**Title:** COMPUTING DIFFERENTIAL AIR MASS FACTOR LOOKUP TABLES USING DISORT RADIATIVE TRANSFER MODEL**Topic:** Atmosphere: Atmospheric Sounding**Session:** Weather Prediction and Data Assimilation II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Jianguo Niu, Trevor Back, Kondragunta Shobha, Lawrence Flynn, Eric Beach**View**ADD **Paper Code:** TU4.T02.1**Paper Number:** 3566**Title:** A STATISTICAL MODEL OF IONOSPHERIC SIGNALS IN LOW-FREQUENCY SAR DATA**Topic:** Invited Sessions: Ionospheric Effects on SAR, PolSAR and InSAR**Session:** Ionospheric Effects on SAR, PolSAR and InSAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Franz Meyer, Brenton Watkins**View**ADD **Paper Code:** FR4.T07.4**Paper Number:** 3570**Title:** INTEGRATING REMOTE SENSING, SPATIAL ANALYSIS AND CERTAINTY FACTOR MODEL FOR WASTE DUMPING RISK ASSESSMENT**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Yi-Shiang Shiu, Meng-Lung Lin, Yi-Chieh Chen, Shien-Ta Fan, Chao-Hsiung Huang, Tzu-How Chu**View**ADD **Paper Code:** WEP.E.3**Paper Number:** 3575**Title:** Gaps in Spatial Technologies Application Policy for Hurricane Disaster Mitigation in the Gulf of Mexico**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Brian Mims**View**ADD **Paper Code:** TU1.T07.4**Paper Number:** 3576**Title:** APPLICATION OF GNSS NETWORKS TO DETECT AND ANALYZE ATMOSPHERIC-INDUCED IONOSPHERIC DISTURBANCES COINCIDENT WITH EARTHQUAKES AND TSUNAMIS

Topic: Invited Sessions: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology

Session: GNSS Remote Sensing in Atmosphere, Ocean and Hydrology I

Time: Tuesday, July 26, 08:20 - 10:00

Authors: Yu-Ming Yang, James Garrison, See-Chen Lee

View

ADD

Paper Code: MOP.X.7

Paper Number: 3577

Title: STATUS AND RECENT PROGRESSES OF DEVELOPMENT OF THE SCATTEROMETER OF CFOSAT

Topic: Sensors and Platforms: Active Microwave

Session: Active Microwave Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Xiaolong Dong, Di Zhu, Wenming Lin, He-Guang Liu, Jingshan Jiang

View

ADD

Paper Code: FR1.T03.5

Paper Number: 3578

Title: DEVELOPMENT, FABRICATION, AND TESTING OF 92 GHZ RADIOMETER FOR IMPROVED COASTAL WET-TROPOSPHERIC CORRECTION ON THE SWOT MISSION

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Microwave Radiometry Missions and Instrument Performance II

Time: Friday, July 29, 08:20 - 10:00

Authors: Darrin Albers, Alexander Lee, Steven C. Reising, Pekka Kangaslahti, Shannon Brown, Douglas Dawson, Todd Gaier, Oliver Montes, Daniel Hoppe, Behrouz Khayatian

View

ADD

Paper Code: MOP.Q.8

Paper Number: 3579

Title: VEGETATION OPACITY MODELS FOR MICROWAVE PROPAGATION USING MULTIFREQUENCY RADIOMETRIC OBSERVATIONS FOR GROWING CORN

Topic: Land: Forests and Vegetation

Session: Vegetation Phenology and Time-Series Analysis I

Time: Monday, July 25, 17:00 - 18:30

Authors: Pang-Wei Liu, Jasmeet Judge

View

ADD

Paper Code: WE1.T04.4

Paper Number: 3580

Title: MEASUREMENT AND COMPARISON ANALYSIS OF CORNER REFLECTOR RADAR CROSS SECTION FOR KOMPSAT-5 CALIBRATION AND VALIDATION

Topic: Invited Sessions: KOMPSAT-5 SAR

Session: KOMPSAT-5 SAR

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Horyung Jeong, Donghan Lee, Taebong Oh, Chulho Jung, Jaemin Shin, Hyosuk Lim

View

ADD

Paper Code: TUP.I.3

Paper Number: 3581

Title: JPSS IDPS PRODUCT GENERATION

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Urban Areas, Buildings and Roads

Time: Tuesday, July 26, 17:00 - 18:30

Authors: David C. Smith, Kerry Grant

View

ADD

Paper Code: WE1.T06.4

Paper Number: 3582

Title: ESTIMATING WATER OPTICAL PROPERTIES, WATER DEPTH AND BOTTOM ALBEDO USING HIGH RESOLUTION SATELLITE IMAGERY FOR COASTAL HABITAT MAPPING

Topic: Environmental Applications: Coastal and Wetlands

Session: Coastal and Wetlands III

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Soo Chin Liew, Ping Chen, Boredin Saengtuksin, Chew Wai Chang

View

ADD

Paper Code: MOPE.1

Paper Number: 3583

Title: A REMOTE SENSING STUDY IN SUPPORT OF THE KOKODA TRACK CONSERVATION INITIATIVE

Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR

Session: Polarimetric SAR Applications

Time: Monday, July 25, 17:00 - 18:30

Authors: Alina Yohannan, Mark Williams, Ian Tapley, Julian Fox, Anthony Milne, Andrew Taplin, James Sabi

View

ADD

Paper Code: TH2.T06.4

Paper Number: 3584

Title: COMPARING RADARSAT 2 AND TERRASAR-X QUAD-POL SAR IMAGERY OF GRASSLANDS

Topic: Environmental Applications: Agroecosystems

Session: Agroecosystems II

Time: Thursday, July 28, 10:20 - 12:00

Authors: Joseph Buckley, Anne Smith

View

ADD

Paper Code: WEP.B.6

Paper Number: 3585

Title: JPSS CGS TOOLS FOR RAPID ALGORITHM UPDATES

Topic: Advances in Analysis Techniques (Theoretical): Information Extraction

Session: SAR Data Analysis II

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Kerry Grant, Gary Route

View

ADD

Paper Code: MO4.T07.2

Paper Number: 3586

Title: UNSUPERVISED URBAN LAND-COVER CLASSIFICATION USING WORLDVIEW-2 DATA AND SELF-ORGANIZING MAPS

Topic: Advances in Analysis Techniques (Theoretical): High Resolution Optical Sensing

Session: High Resolution Optical Sensing I

Time: Monday, July 25, 15:20 - 17:00

Authors: Jie Zhang, John Kerekes

View

ADD

Paper Code: WE3.T05.1

Paper Number: 3587

Title: FOREST STRUCTURE ESTIMATION USING SAR, LIDAR, AND OPTICAL DATA IN THE CANADIAN BOREAL FOREST

Topic: Land: Forests and Vegetation

Session: Analysis Methods, Classification, and Sensor Fusion II

Time: Wednesday, July 27, 13:20 - 15:00

Authors: Michael Benson, Leland Pierce, Kathleen Bergen, Kamal Sarabandi, Kailai Zhang, Caitlin Ryan

View

ADD

Paper Code: WEP.V.4

Paper Number: 3588

Title: JOINT POLAR SATELLITE SYSTEM COMMON GROUND SYSTEM OVERVIEW

Topic: Sensors and Platforms: Gound Based System

Session: Ground Based System - Applications

Time: Wednesday, July 27, 17:00 - 18:30

Authors: David C. Smith, Michael Jamilkowski

- View**
ADD
- Paper Code:** WEP.T.5 **Paper Number:** 3591
Title: SCAMPI TOOLSET FOR JPSS MISSION PERFORMANCE SIMULATION
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: US Joint Polar Satellite System III
Time: Wednesday, July 27, 17:00 - 18:30
Authors: James Brom, Ken McConnell, Dale Hargrave, David C. Smith
- View**
ADD
- Paper Code:** WEP.H.9 **Paper Number:** 3592
Title: FIRST MEASUREMENT OF THE HENRY'S LAW SOLUBILITY COEFFICIENT OF ISOCYANIC ACID (HNCO) IN WATER AND ITS POTENTIAL HEALTH EFFECTS
Topic: Atmosphere: Aerosols and Atmospheric Chemistry
Session: Advances in Earth Sensing and Applications II
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Anthony Cochran, James Roberts, Patrick Veres, Solomon Bililiign
- View**
ADD
- Paper Code:** WE4.T04.4 **Paper Number:** 3593
Title: Electromagnetic Models of Like-Polarization and Cross-Polarization in Radar Remote Sensing of Terrestrial Snow at X- and Ku-band for applications in CoReH20 and SCLP
Topic: Land: Land Ice and Snow
Session: Active/Passive Microwave Remote Sensing of Terrestrial Snow I
Time: Wednesday, July 27, 15:20 - 17:00
Authors: Xiaolan Xu, Leung Tsang, Wenmo Chang, Simon H. Yueh
- View**
ADD
- Paper Code:** TH4.T04.2 **Paper Number:** 3594
Title: MULTITEMPORAL, MULTISENSOR FUSION FOR MONITORING ICE SHEET CHANGES FROM ALTIMETRY AND IMAGERY
Topic: Land: Land Ice and Snow
Session: Remote Sensing of Polar Regions
Time: Thursday, July 28, 15:20 - 17:00
Authors: Beata Csatho, Anton Schenk, Sudhagar Nagarajan, Gregory Babonis
- View**
ADD
- Paper Code:** WEP.T.4 **Paper Number:** 3599
Title: NPOESS PREPARATORY PROJECT (NPP) ENVIRONMENTAL PRODUCTS
Topic: Advances in Analysis Techniques (Theoretical): Information Extraction
Session: US Joint Polar Satellite System III
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Kerry Grant, David C. Smith
- View**
ADD
- Paper Code:** MOP.Z.3 **Paper Number:** 3601
Title: USING COMMERCIAL, HIGH-RESOLUTION CAMERAS FOR DIGITAL MAPPING PROJECTS
Topic: Sensors and Platforms: Passive Optical and Hyperspectral Sensors
Session: Passive Optical and Hyperspectral Sensors II
Time: Monday, July 25, 17:00 - 18:30
Authors: Toni Schenk, Beata Csatho
- View**
ADD
- Paper Code:** TH3.T05.1 **Paper Number:** 3602
Title: THE PRESENT STATUS OF GOCI
Topic: Invited Sessions: GOCI (Geostationary Ocean Color Imager) Mission operations and applications
Session: GOCI (Geostationary Ocean Color Imager) Mission and Applications
Time: Thursday, July 28, 13:20 - 15:00

ViewADD **Authors:** Yu-Hwan Ahn, Joo-Hyung Ryu, Seongick Cho, Hee-Jeong Han, Jae-Hyun Ahn, Sun-Ju Lee, Joung-Mi Ryu**Paper Code:** MOP.I.7**Paper Number:** 3603**Title:** An automated, information preserved and computational efficient approach to adjustable SAR-MS fusion**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Processing and Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Yun Zhang**View**ADD **Paper Code:** TU2.T04.2**Paper Number:** 3604**Title:** VECTOR ELECTROMAGNETIC SCATTERING FROM LAYERED ROUGH SURFACES WITH BURIED DISCRETE RANDOM MEDIA FOR SUBSURFACE AND ROOT-ZONE SOIL MOISTURE SENSING**Topic:** Land: Soils and Soil Moisture**Session:** Student Paper Contest II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Xueyang Duan, Mahta Moghaddam**View**ADD **Paper Code:** WEP.I.10**Paper Number:** 3605**Title:** SPATIO-TEMPORAL ESTIMATION OF SOIL MOISTURE IN A TROPICAL REGION USING A REMOTE SENSING ALGORITHM**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Analysis and Applications**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Liliana Marrufo, Fernando González Villarreal, Alejandro Monsiváis-Huerta, Judith Ramos**View**ADD **Paper Code:** MOP.L.7**Paper Number:** 3607**Title:** MULTI-LEVEL SEGMENTATION FOR BUILDING EXTRACTION FROM VERY HIGH RESOLUTION URBAN IMAGERY**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Segmentation and Object Detection**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Vivek Dey, Yun Zhang, Travis Maxwell, Hengjian Tong**View**ADD **Paper Code:** MOP.G.1**Paper Number:** 3608**Title:** COMPARISON OF CLASSIFICATION ACCURACY BETWEEN FULLY POLARIMETRIC AND DUAL-POLARIZATION SAR IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Varsha Turkar, Rinki Deo, Siddharth Hariharan, S Rao Y**View**ADD **Paper Code:** TH3.T05.4**Paper Number:** 3609**Title:** PRELIMINARY AFTER-LAUNCH GOCI CHARACTERIZATION**Topic:** Invited Sessions: GOCI (Geostationary Ocean Color Imager) Mission operations and applications**Session:** GOCI (Geostationary Ocean Color Imager) Mission and Applications**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Young-Je Park, Hee-Jeong Han, Seongick Cho, Joo-Hyung Ryu, Jae-Hyun Ahn, Yu-Whan Ahn**View****Paper Code:** MOP.U.8**Paper Number:** 3611

ADD

Title: A 3D SUBSURFACE IMAGING TECHNIQUE BASED ON DISTRIBUTED NEAR-GROUND SENSORS: INVESTIGATION USING SCALE MODEL MEASUREMENTS

Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar

Session: Subsurface Environmental Sensing: Systems, Methods and Applications II

Time: Monday, July 25, 17:00 - 18:30

Authors: Fikadu Dagefu, Kamal Sarabandi

View

ADD

Paper Code: MOP.O.5

Paper Number: 3613

Title: ADAPTIVE RECONSTRUCTION OF NDVI TIME SERIES WITH MULTI-PERIODIC HARMONIC MODEL

Topic: Land: Land Use and Land Cover Change

Session: Land Use and Land Cover Change IV

Time: Monday, July 25, 17:00 - 18:30

Authors: Sang-Hoon Lee

View

ADD

Paper Code: MOP.X.8

Paper Number: 3614

Title: SOME CONSIDERATIONS ABOUT THE IN-ORBIT CALIBRATION OF SPACEBORNE ROTATING FAN BEAM RADAR SCATTEROMETER

Topic: Sensors and Platforms: Active Microwave

Session: Active Microwave Techniques

Time: Monday, July 25, 17:00 - 18:30

Authors: Xiaolong Dong, Daozhi Liu, Jintai Zhu, Di Zhu, Wenming Lin

View

ADD

Paper Code: MOP.F.4

Paper Number: 3615

Title: PARAMETRIC AND NON-PARAMETRIC FOREST BIOMASS ESTIMATION FROM POLINSAR DATA

Topic: Advances in Analysis Techniques (Theoretical): POL and POLINSAR

Session: Polarimetric SAR I

Time: Monday, July 25, 17:00 - 18:30

Authors: Maxim Neumann, Sassan Saatchi, Lars M. Ulander, Johan Fransson

View

ADD

Paper Code: MOP.L.6

Paper Number: 3616

Title: OBJECT-BASED CLASSIFICATION USING REGION GROWING SEGMENTATION

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: Image Segmentation and Object Detection

Time: Monday, July 25, 17:00 - 18:30

Authors: Sang-Hoon Lee

View

ADD

Paper Code: MOP.A.8

Paper Number: 3617

Title: TRADE-OFF BETWEEN VERTICAL RESOLUTION AND ACCURACY IN WATER VAPOR RETRIEVALS FROM GROUND-BASED MICROWAVE BRIGHTNESS TEMPERATURE MEASUREMENTS

Topic: Sensors and Platforms: Radiometer Instruments and Calibration

Session: Electromagnetic Modeling and Data Analysis

Time: Monday, July 25, 17:00 - 18:30

Authors: Swaroop Sahoo, Steven C. Reising, Jothiram Vivekanandan

View

ADD

Paper Code: WEP.M.3

Paper Number: 3619

Title: STUDY OF RETREAT OF HAMTAH GLACIER, INDIAN HIMALAYA, USING REMOTE SENSING TECHNIQUE

Topic: Land: Land Ice and Snow

Session: Research Projects and Passive Microwave Remote Sensing Snow and Ice

ViewADD **Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Pratima Pandey, Gopalan Venkataraman, Satya Prakash Shukla**Paper Code:** WEP.A.8**Paper Number:** 3622**Title:** NONPARAMETRIC FEATURE SELECTION AND SUPPORT VECTOR MACHINE FOR POLARIMETRIC SAR DATA CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Bistatic SAR I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Yasser Maghsoudi, Michael Collins, Donald Leckie**View**ADD **Paper Code:** TH1.T06.5**Paper Number:** 3623**Title:** VEGETATION CONDITION INDICES FOR CROP VEGETATION CONDITION MONITORING**Topic:** Invited Sessions: Remote Sensing & Geo-informatics for Agricultural Monitoring and Assessment**Session:** Remote Sensing and Geo-informatics for Agricultural Monitoring and Assessment**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Zhengwei Yang, Liping Di, Genong Yu, Zeqiang Chen**View**ADD **Paper Code:** WEP.J.10**Paper Number:** 3631**Title:** HOW IS THE ANGULAR SIGNATURE OF SMOS BRIGHTNESS TEMPERATURE DIFFERENT IN THE MORNING AND EVENING?**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Passive Microwave**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Brian Hornbuckle, Tracy Rowlandson, Jason Patton, Lisa Bramer**View**ADD **Paper Code:** TUP.R.10**Paper Number:** 3635**Title:** ASSESSMENT OF AMSR-E ASI SEA ICE CONCENTRATIONS WITH SHIP OBSERVATIONS AND LANDSAT-7 ETM+ IMAGERY**Topic:** Oceans: Sea Ice**Session:** Oceans I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Ying Xi, Bo Sun, Xin Li, Na Li**View**ADD **Paper Code:** MOP.W.5**Paper Number:** 3636**Title:** CALIBRATION EXPERIMENTS OF ADVANCED X-BAND AIRBORNE SAR SYSTEM, PI-SAR2**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Makoto Satake, Takeshi Matsuoka, Toshihiko Umehara, Tatsuharu Kobayashi, Akitsugu Nadai, Junpei Uemoto, Shoichiro Kojima, Seiho Uratsuka**View**ADD **Paper Code:** TUP.N.10**Paper Number:** 3637**Title:** SPATIO-TEMPORAL STRUCTURE OF SST IN EL NIÑO REGIONS AND ITS RELATIONSHIPS WITH ZONAL DISPLACEMENT ANOMALY OF WESTERN PACIFIC WARM POOL**Topic:** Oceans: Ocean Temperature and Salinity**Session:** Ocean Biology (Color) and Water Quality II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Cunjin Xue, Qing Dong, FengTai Si, Jiong Xie

[View](#)ADD **Paper Code:** FR4.T06.3**Paper Number:** 3640**Title:** A CHANGE DETECTION APPROACH TO SAR-BASED FLOOD MAPPING AT A GLOBAL SCALE**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Patrick Matgen, Renaud Hostache, Laura Giustarini, Guy Schumann[View](#)ADD **Paper Code:** MOP.C.3**Paper Number:** 3641**Title:** PRELIMINARY RESULTS ON CROSS-TRACK INTERFEROMETRIC SAR FUNCTION OF THE AIRBORNE SAR SYSTEM (PI-SAR2) OF NICT**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** High Resolution and Multi-Channel SAR**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Tatsuharu Kobayashi, Toshihiko Umehara, Takeshi Matsuoka, Akitsugu Nadai, Makoto Satake, Shoichiro Kojima, Junpei Uemoto, Seiho Uratsuka[View](#)ADD **Paper Code:** WE4.T08.5**Paper Number:** 3653**Title:** Artificial Intelligence for mixed pixel resolution**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Image Fusion and Super-Resolution**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Nitish Gupta, V.K. Panchal[View](#)ADD **Paper Code:** MOP.Q.2**Paper Number:** 3655**Title:** Assessment of the effect of phenophases on forest burnt area mapping using multi-temporal MODIS Data**Topic:** Land: Forests and Vegetation**Session:** Vegetation Phenology and Time-Series Analysis I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shiyang Liu, Ronggao Liu[View](#)ADD **Paper Code:** TUP.O.3**Paper Number:** 3658**Title:** WIND FIELD AROUND MOVING SHIPS OBSERVED IN SAR IMAGERY OF THE SEA SURFACE**Topic:** Oceans: Ocean Surface Winds and Currents**Session:** Ocean Surface Winds and Currents III**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Alexander Soloviev, Silvia Matt, Stephan Brusch, Susanne Lehner[View](#)ADD **Paper Code:** WE3.T03.3**Paper Number:** 3659**Title:** COMPARISON BETWEEN TRMM/PR AND AMEDAS GROUND RAIN GAUGE NETWORK IN TERMS OF ANNUAL RAINFALL**Topic:** Atmosphere: Precipitation and Clouds**Session:** Tropical Rainfall Measuring Mission**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Nozomi Kawamoto, Riko Oki, Shuji Shimizu[View](#)ADD **Paper Code:** WE1.T09.3**Paper Number:** 3661**Title:** DETECTION OF COMPOUND STRUCTURES USING HIERARCHICAL CLUSTERING OF STATISTICAL AND STRUCTURAL FEATURES**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Building Detection and Object Recognition

- View**
ADD
- Time:** Wednesday, July 27, 08:20 - 10:00
Authors: Gokhan Akcay, Selim Aksoy
- Paper Code:** WEP.E.4 **Paper Number:** 3664
Title: A Weighted Clustering Algorithm For Clarifying Vehicle GPS Traces
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques I
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Jing Wang, Xiaoping Rui, Xianfeng Song, Chaoliang Wang, Lingli Tang, Chuanrong Li, Venkatesh Raghvan
- View**
ADD
- Paper Code:** MOP.Z.1 **Paper Number:** 3666
Title: THE LONG-TERM VICARIOUS AND CROSS CALIBRATION PLAN FOR HYPER-SPECTRAL IMAGER SUITE (HISUI)
Topic: Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing
Session: Passive Optical and Hyperspectral Sensors II
Time: Monday, July 25, 17:00 - 18:30
Authors: Akihide Kamei, Kazuki Nakamura, Tetsushi Tachikawa, Hirokazu Yamamoto, Ryosuke Nakamura, Satoshi Tsuchida
- View**
ADD
- Paper Code:** TU1.T06.3 **Paper Number:** 3668
Title: GRADIENT BASED TECHNIQUE FOR ELECTROMAGNETIC LAYERED EARTH MODEL DATA INVERSION
Topic: Environmental Applications: Subsurface Sensing/Ground Penetrating Radar
Session: Subsurface Environmental Sensing: Methods
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Claudio Patriarca, Andrea Di Matteo, Evert Slob
- View**
ADD
- Paper Code:** MOP.P.3 **Paper Number:** 3674
Title: SPECIFIC NORMALIZATION FOR THE BACKSCATTERED INTENSITY OVER TROPICAL DENSE FORESTS
Topic: Land: Forests and Vegetation
Session: Tropical Forests
Time: Monday, July 25, 17:00 - 18:30
Authors: Ludovic Villard, Thuy Le Toan, Yannick Lasne
- View**
ADD
- Paper Code:** TU1.T01.5 **Paper Number:** 3675
Title: IMPACT OF SAR RESOLUTION ON THE BACKSCATTERED INTENSITY BY FORESTS OVER HILLY TERRAINS
Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling
Session: Volume Scattering
Time: Tuesday, July 26, 08:20 - 10:00
Authors: Ludovic Villard, Thuy Le Toan, Pierre Borderies
- View**
ADD
- Paper Code:** TH3.T08.3 **Paper Number:** 3680
Title: A NUMBER-OF-CLASSES-ADAPTIVE UNSUPERVISED CLASSIFICATION FRAMEWORK FOR SAR IMAGES
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: SAR Image Processing III
Time: Thursday, July 28, 13:20 - 15:00
Authors: Bin Liu, Hao Hu, Kaizhi Wang, Xingzhao Liu, Wenxian Yu
- View**
ADD
- Paper Code:** WE4.T10.5 **Paper Number:** 3681

ADD

Title: THE CFOSAT PROJECT : A COOPERATION TO ASSESS WAVE DIRECTIONAL SPECTRA AND SURFACE WINDS

Topic: Oceans: Ocean Altimetry

Session: Ocean Altimetry I

Time: Wednesday, July 27, 15:20 - 17:00

Authors: Patrick Castillan, Nathalie Corcoral, Thierry Amiot, Céline Tison, Eric Thouvenot, Danièle Hauser

View

ADD

Paper Code: MOP.A.4

Paper Number: 3694

Title: An efficient algorithm to model the GPR response in a layered VTI medium

Topic: Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling

Session: Electromagnetic Modeling and Data Analysis

Time: Monday, July 25, 17:00 - 18:30

Authors: Evert Slob

View

ADD

Paper Code: MO3.T09.5

Paper Number: 3695

Title: RECENT ADVANCES IN OBJECT-BASED CHANGE DETECTION

Topic: Invited Sessions: Change Detection and Multitemporal Image Analysis

Session: Change Detection and Multitemporal Image Analysis I

Time: Monday, July 25, 13:20 - 15:00

Authors: Clemens Listner, Irmgard Niemeyer

View

ADD

Paper Code: TH3.T08.4

Paper Number: 3696

Title: QUALITY ASSESSMENT OF DESPECKLED SAR IMAGES

Topic: Advances in Analysis Techniques (Theoretical): Image Processing

Session: SAR Image Processing III

Time: Thursday, July 28, 13:20 - 15:00

Authors: Silvana Dellepiane, Elena Angiati

View

ADD

Paper Code: TU4.T03.3

Paper Number: 3697

Title: NEAR-REAL-TIME OCEAN SURFACE VECTOR WIND RETRIEVALS FROM PASSIVE MICROWAVE MEASUREMENTS: STATUS AND FUTURE PLANS

Topic: Invited Sessions: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy

Session: Active and Passive Microwave Remote Sensing: Comparisons, Contrasts, and Synergy II

Time: Tuesday, July 26, 15:20 - 17:00

Authors: Michael Bettenhausen, Ian Adams, Peter Gaiser, William Johnston

View

ADD

Paper Code: WEP.I.5

Paper Number: 3698

Title: EFFECT OF SOIL MOISTURE AND LAND COVER ON DUST GENERATION IN DESERT AND ARID ENVIRONMENT

Topic: Land: Soils and Soil Moisture

Session: Soil Moisture Analysis and Applications

Time: Wednesday, July 27, 17:00 - 18:30

Authors: Sagar Prasad Parajuli, Hosni Ghedira, Imen Gherboudj

View

ADD

Paper Code: TH3.T02.3

Paper Number: 3700

Title: DESDynI: ACHIEVING MULTI-DISPLINE SCIENCE OBJECTIVES THROUGH A COMBINATION OF SweepSAR TECHNOLOGY AND MISSION DESIGN

Topic: Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications

Session: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications I

Time: Thursday, July 28, 13:20 - 15:00**Authors:** Scott Hensley, Paul Rosen, Scott Shaffer, Bruce Chapman, Sang-Ho Yun, Curtis Chen, Sean Buckley, Shadi Oveisgharan, Ziad Haddad, Sassan Saatchi, Marc Simard, Eva Peral, Dragana Perkovic, Leif Harcke, Rolando Jordan, Chandini Veeramachaneni, Julian Chaubell**View****ADD** **Paper Code:** WE3.T04.3**Paper Number:** 3704**Title:** ANALYSIS OF SOIL FREEZING AND THAWING PROCESSES ON NORTHERN FINLAND USING L-BAND RADIOMETER DATA**Topic:** Land: Soils and Soil Moisture**Session:** Freeze-Thaw and Soil Moisture**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Kimmo Rautiainen, Jouni Pulliainen, Juha Lemmetyinen, Juho Vehviläinen, Anna Kontu, Matthias Drusch**View****ADD** **Paper Code:** WEP.M.6**Paper Number:** 3708**Title:** DEVELOPMENT OF GLACIAL LAKE INVENTORY IN BHUTAN USING "DAICHI" (ALOS)**Topic:** Land: Land Ice and Snow**Session:** Research Projects and Passive Microwave Remote Sensing Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Takeo Tadono, Masanobu Shimada, Tsutomu Yamanokuchi, Jinro Ukita, Chiyuki Narama, Nobuhiro Tomiyama, Sachi Kawamoto, Koji Fujita, Kouichi Nishimura**View****ADD** **Paper Code:** TU4.T02.2**Paper Number:** 3710**Title:** IONOSPHERIC EFFECTS IN SAR INTERFEROMETRY: AN ANALYSIS AND COMPARISON OF METHODS FOR THEIR ESTIMATION**Topic:** Invited Sessions: Ionospheric Effects on SAR, PolSAR and InSAR**Session:** Ionospheric Effects on SAR, PolSAR and InSAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Ramon Brcic, Alessandro Parizzi, Michael Eineder, Richard Bamler, Franz Meyer**View****ADD** **Paper Code:** TU4.T01.5**Paper Number:** 3714**Title:** AMPLITUDE BASED InSAR STACK MULTI-LOOKING: PERFORMANCE AND APPLICATIONS**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Time-Series and Stacking Interferometry II**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Alessandro Parizzi, Ramon Brcic**View****ADD** **Paper Code:** MO3.T07.3**Paper Number:** 3723**Title:** L1 NETWORK INVERSION FOR ROBUST OUTLIER REJECTION IN PERSISTENT SCATTERER INTERFEROMETRY**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Superresolution and Sub-Pixel Classification**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Fernando Rodriguez-Gonzalez, Akanksha Bhutani, Nico Adam**View****Paper Code:** TU3.T07.5**Paper Number:** 3724**Title:** Monthly Oceanic Rainfall from Microwave Emission brightness Temperature Histogram (METH) Technique: TRMM One Degree Product

ADD **Topic:** Atmosphere: Precipitation and Clouds**Session:** Remote Sensing of Precipitation from Space - The Past, Present and Future I**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Long Chiu, Dong-Bin Shin

View

ADD **Paper Code:** TH4.T01.1**Paper Number:** 3729**Title:** THE EFFECT OF SPATIAL AND TEMPORAL FOREST VARIABILITY ON RADAR OBSERVABLES**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR III**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Maxim Neumann, Sassan Saatchi, Laurent Ferro-Famil, Andreas Reigber

View

ADD **Paper Code:** WE4.T03.3**Paper Number:** 3730**Title:** PERFORMANCE CHARACTERISTICS OF THE NASA DUAL-FREQUENCY DUAL-POLARIZED DOPPLER RADAR (D3R)**Topic:** Sensors and Platforms: Active Microwave**Session:** New Active Microwave Instruments**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Manuel Vega, Kumar Vijay Mishra, Venkatachalam Chandrasekar, Mathew Schwaller, James Carswell

View

ADD **Paper Code:** WE1.T07.5**Paper Number:** 3731**Title:** WAVEFORM DESIGN AND IMPLEMENTATION FOR THE SOLID-STATE NASA DUAL-FREQUENCY DUAL-POLARIZED DOPPLER RADAR**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Kumar Vijay Mishra, Venkatachalam Chandrasekar, Cuong Nguyen, Manuel Vega

View

ADD **Paper Code:** WE1.T07.1**Paper Number:** 3733**Title:** SATELLITE SENSING OF INTENSE WINTER MESOCYCLOES OVER THE JAPAN SEA**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds I**Time:** Wednesday, July 27, 08:20 - 10:00**Authors:** Leonid Mitnik, Irina Gurvich, Mikhail Pichugin

View

ADD **Paper Code:** TH4.T09.6**Paper Number:** 3737**Title:** A FRAMEWORK OF ONTOLOGY-BASED KNOWLEDGE INFORMATION PROCESSING FOR CHANGE DETECTION IN REMOTE SENSING DATA**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification and Change Detection**Time:** Thursday, July 28, 15:20 - 17:00**Authors:** Shutaro Hashimoto, Takeo Tadono, Masahiko Onosato, Masahiro Hori, Takashi Moriyama

View

ADD **Paper Code:** TH1.T08.5**Paper Number:** 3738**Title:** AN EFFICIENT AUTOMATIC GEO-REGISTRATION TECHNIQUE FOR HIGH RESOLUTION SPACEBORNE SAR IMAGE FUSION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing I**Time:** Thursday, July 28, 08:20 - 10:00

[View](#)ADD **Authors:** Wookyung Lee, Ah-Leum Kim**Paper Code:** MO4.T02.4**Paper Number:** 3740**Title:** FOREST MAPPING USING MULTI-TEMPORAL POLARIMETRIC SAR DATA IN SOUTHWEST CHINA**Topic:** Invited Sessions: Advanced Methods for Polarimetric SAR information extraction**Session:** Advanced Methods for Polarimetric SAR Information Extraction II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Yun Shao, Fengli Zhang, Maosong Xu, Zhongsheng Xia, Chou Xie, Kun Li, Zi Wan, Ridha Touzi[View](#)ADD **Paper Code:** TH1.T03.5**Paper Number:** 3741**Title:** LESSONS LEARNED FROM HUT-2D L-BAND AIRBORNE DEMONSTRATOR**Topic:** Invited Sessions: Interferometric Synthetic Aperture Microwave Radiometers**Session:** Interferometric Synthetic Aperture Microwave Radiometers I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Juha Kainulainen, Kimmo Rautiainen, Martti Hallikainen[View](#)ADD **Paper Code:** TH3.T08.5**Paper Number:** 3742**Title:** SCENE INTERPRETATION FOR SAR IMAGES USING SUPERVISED TOPIC MODELS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing III**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Bin Liu, Huanyu Wang, Kaizhi Wang, Xingzhao Liu, Wenxian Yu[View](#)ADD **Paper Code:** TU1.T03.5**Paper Number:** 3745**Title:** CONTRIBUTION OF ALOS, RADARSAT-2 AND TERRASAR-X RADAR DATA FOR MONITORING AGRICULTURAL SURFACES**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Remote Sensing I**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Frederic Baup, Rémy Fieuzal, Benoît Mingam, Armand Lopes, Roger Fjørtoft, Claire Marais-Sicre, Jean-Francois Dejoux, Mehrez Zribi, Nicolas Baghdadi, Eric Ceschia[View](#)ADD **Paper Code:** WEP.B.7**Paper Number:** 3749**Title:** SELF-CALIBRATED DIRECT GEO-REFERENCING OF AIRBORNE PUSHBROOM HYPERSPECTRAL IMAGES**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** SAR Data Analysis II**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Ching-Kuo Yeh, Victor J. D. Tsai[View](#)ADD **Paper Code:** WEP.E.5**Paper Number:** 3751**Title:** MODEL SEMANTIC NETWORK FOR MASSIVE SPATIAL INFORMATION**Topic:** Advances in Analysis Techniques (Theoretical): Geographic Information Science**Session:** GIS Techniques I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xiaolin Wang, Yingwei Luo[View](#)**Paper Code:** TH3.T02.1**Paper Number:** 3758

ADD **Title:** MAKING THE MOST OF DESDYNI – AN OVERVIEW OF THE PROPOSED MISSION**Topic:** Invited Sessions: Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications**Session:** Making the most of the Proposed DESDynI Mission: New Techniques, Science, and Applications I**Time:** Thursday, July 28, 13:20 - 15:00**Authors:** Paul Rosen, Howard Eisen, Scott Hensley, Scott Shaffer, Louise Veilleux, K. Jon Ranson, Andre Dress, Bryan Blair, Scott Luthcke, Ralph Dubayah, Bradford Hager, Ian Joughin, Howard Zebker

View

Paper Code: MOP.W.4**Paper Number:** 3762ADD **Title:** DEVELOPMENT OF CIRCULARLY POLARIZED SYNTHETIC APERTURE RADAR ONBOARD MICROSATELLITE FOR EARTH DIAGNOSIS**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments II**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Josaphat Tetuko Sri Sumantyo

View

Paper Code: TU4.T02.3**Paper Number:** 3763ADD **Title:** TECHNIQUES AND TOOLS FOR ESTIMATING IONOSPHERIC EFFECTS IN INTERFEROMETRIC AND POLARIMETRIC SAR DATA**Topic:** Invited Sessions: Ionospheric Effects on SAR, PolSAR and InSAR**Session:** Ionospheric Effects on SAR, PolSAR and InSAR**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Paul Rosen, Marco Lavallo, Xiaoqing Pi, Sean Buckley, Walter Szeliga, Howard Zebker, Eric Gurrola

View

Paper Code: MOP.G.4**Paper Number:** 3770ADD **Title:** Edge detection from polarimetric SAR images using polarimetric whitening filter**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR Techniques**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Shaoping Deng, Jixian Zhang, Pingxiang Li, Guoman Huang

View

Paper Code: FR2.T04.5**Paper Number:** 3771ADD **Title:** A SYNERGY BETWEEN SMOS & AQUARIUS: RESAMPLING SMOS MAPS AT THE RESOLUTION AND INCIDENCE ANGLES OF AQUARIUS**Topic:** Sensors and Platforms: Others**Session:** Missions and Instruments II**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Eric Anterrieu, Yann H. Kerr, François Cabot, Gary Lagerloef, David Le Vine

View

Paper Code: WEP.D.9**Paper Number:** 3777ADD **Title:** SEMI-SUPERVISED REMOTE SENSING IMAGE CLASSIFICATION METHODS ASSESSMENT**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Information Extraction - Feature Extraction, Parameter Estimation, Object Recognition, and Classification**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Rogério Negri, Sidnei Sant'Anna, Luciano Dutra

[View](#)ADD **Paper Code:** TUP.X.5**Paper Number:** 3778**Title:** ELECTROMAGNETIC ANALYSIS OF RADIOMETER CALIBRATION TARGETS USING DISPERSIVE 3D FDTD**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Srikumar Sandeep, Albin J. Gasiewski, David K. Walker[View](#)ADD **Paper Code:** WEP.Q.9**Paper Number:** 3779**Title:** Sensitivity Analysis of the Sunshine Duration Parameters in SEBAL Model for Estimating Winter Wheat Evapotranspiration**Topic:** Environmental Applications: Agroecosystems**Session:** Agroecosystems I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Xiaochun Zhang, Huayi Wu[View](#)ADD **Paper Code:** MO3.T10.4**Paper Number:** 3781**Title:** IN-ORBIT SENSOR MEASURED RADIANCE CHARACTERISTICS OF GEOSTATIONARY OCEAN COLOR IMAGER**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Ocean Biology (Color) and Water Quality I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Seongick Cho, Hee-Jeong Han, Yu-Hwan Ahn, Joo-Hyung Ryu[View](#)ADD **Paper Code:** TU2.T04.5**Paper Number:** 3782**Title:** A GENERAL APPROACH TO THE SPATIAL SIMPLIFICATION OF REMOTE SENSING IMAGES BASED ON MORPHOLOGICAL CONNECTED FILTERS**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Student Paper Contest II**Time:** Tuesday, July 26, 10:20 - 12:00**Authors:** Mauro Dalla Mura, Jon Atli Benediktsson, Lorenzo Bruzzone[View](#)ADD **Paper Code:** TH2.T04.3**Paper Number:** 3783**Title:** MASS DEFICIT OF GLACIERS AT THE NORTHERN ANTARCTIC PENINSULA DERIVED FROM SATELLITE BORNE SAR AND ALTIMETER MEASUREMENTS**Topic:** Land: Land Ice and Snow**Session:** Active Microwave Remote Sensing of Snow and Ice**Time:** Thursday, July 28, 10:20 - 12:00**Authors:** Helmut Rott, Florian Mueller, Thomas Nagler, Dana Floricioiu, Michael Eineder[View](#)ADD **Paper Code:** WEP.C.9**Paper Number:** 3786**Title:** FEATURE SELECTION BY HIGH DIMENSIONAL MODEL REPRESENTATION AND ITS APPLICATION TO REMOTE SENSING**Topic:** Advances in Analysis Techniques (Theoretical): Information Extraction**Session:** Classification I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Gulsen Taskin Kaya, Huseyin Kaya, Okan K. Ersoy[View](#)ADD **Paper Code:** TU4.T02.5**Paper Number:** 3789**Title:** GLOBAL DISTRIBUTION OF L-BAND IONOSPHERIC SCINTILLATION**Topic:** Invited Sessions: Ionospheric Effects on SAR, PolSAR and InSAR**Session:** Ionospheric Effects on SAR, PolSAR and InSAR

- View**
ADD
- Time:** Tuesday, July 26, 15:20 - 17:00
Authors: Xiaoqing Pi, Anthony Mannucci, Anthony Freeman
Paper Code: TUP.S.7 **Paper Number:** 3796
Title: URBAN MONITORING AND CHANGE DETECTION OF CENTRAL TOKYO USING HIGH-RESOLUTION X-BAND SAR IMAGES
Topic: Environmental Applications: Urban and Built Environment
Session: Urban Remote Sensing
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Wen Liu, Fumio Yamazaki
- View**
ADD
- Paper Code:** TU2.T07.5 **Paper Number:** 3802
Title: RETRIEVAL OF RAINFALL FROM THE MADRAS MICROWAVE IMAGER OF MEGHA-TROPIQUES
Topic: Invited Sessions: Global Precipitation Mission
Session: Global Precipitation Mission
Time: Tuesday, July 26, 10:20 - 12:00
Authors: Chakravarthy Balaji, Srinivasa Ramanujam Kannan
- View**
ADD
- Paper Code:** MOP.I.2 **Paper Number:** 3803
Title: EXTRACTION OF CRATERS AS CONCENTRIC CIRCLE PATTERNS OF CONTOURS ON THE LUNAR DIGITAL TERRAIN MODEL
Topic: Advances in Analysis Techniques (Theoretical): Image Processing
Session: Image Processing and Analysis I
Time: Monday, July 25, 17:00 - 18:30
Authors: Shin Sato, Noriaki Asada, Hirohide Demura, Naru Hirata
- View**
ADD
- Paper Code:** FR1.T02.3 **Paper Number:** 3806
Title: TECHNOLOGY PREPARATION FOR TERRASAR-X FOLLOW-ON
Topic: Invited Sessions: Advanced SAR Concepts and Mission
Session: Advanced SAR Concepts and Mission
Time: Friday, July 29, 08:20 - 10:00
Authors: Christian Fischer, Christoph Heer, Rolf Werninghaus
- View**
ADD
- Paper Code:** FR1.T10.2 **Paper Number:** 3810
Title: PERFORMANCE OF ANOMALOUS SIGNAL DETECTION WITH HMM APPROACH IN ELECTROMAGNETIC WAVE OBSERVATION USING MOVING WINDOW
Topic: Data Management, Dissemination, Education and Policy: Data Management and Systems
Session: Data Management and Systems
Time: Friday, July 29, 08:20 - 10:00
Authors: Yoshinao Ito, Akitoshi Itai, Hiroshi Yasukawa, Ichi Takumi, Masayasu Hata
- View**
ADD
- Paper Code:** TUP.N.11 **Paper Number:** 3813
Title: CYANOBACTERIA BLOOM MAPPING USING SATELLITE DATA IN BRACKISH LAKE SHINJI AND LAKE NAKAUMI
Topic: Oceans: Ocean Biology (Color) and Water Quality
Session: Ocean Biology (Color) and Water Quality II
Time: Tuesday, July 26, 17:00 - 18:30
Authors: Yuji Sakuno, Hidenobu Kunii
- View**
- Paper Code:** WEP.K.10 **Paper Number:** 3814
Title: OPEN-ENDED COAXIAL PROBE FOR IN-SITU MEASURING THE DIELECTRIC CONSTANT OF SOFT EARTH MEDIA

ADD

Topic: Land: Soils and Soil Moisture
Session: Soil Moisture Techniques
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Hiroshi Kimura

View

ADD

Paper Code: WEP.J.6 **Paper Number:** 3816
Title: AIRBORNE SOIL MOISTURE DETERMINATION USING A DATA FUSION APPROACH AT REGIONAL LEVEL
Topic: Land: Soils and Soil Moisture
Session: Soil Moisture Passive Microwave
Time: Wednesday, July 27, 17:00 - 18:30
Authors: Francisco Martín, Juan Fernando Marchan, Albert Aguasca, Mercè Vall-Ilossera, Jordi Corbera, Adriano Camps, Maria Piles, Luca Pipia, Anna Tardà, Alberto G Villafranca

View

ADD

Paper Code: MOP.F.5 **Paper Number:** 3822
Title: UNSUPERVISED CLASSIFICATION OF POLSAR DATA BASED ON THE POLARIMETRIC DECOMPOSITION AND THE CO-POLARIZATION RATIO
Topic: Advances in Analysis Techniques (Theoretical): POL and POLInSAR
Session: Polarimetric SAR I
Time: Monday, July 25, 17:00 - 18:30
Authors: Shuang Wang, Jingjing Pei, Kun Liu, Shuang Zhang, Bo Chen

View

ADD

Paper Code: MOP.V.3 **Paper Number:** 3828
Title: HARDWARE PERFORMANCE OF L-BAND SAR SYSTEM ONBOARD ALOS-2
Topic: Sensors and Platforms: SAR Instruments, Missions and Calibration
Session: SAR Missions and Instruments I
Time: Monday, July 25, 17:00 - 18:30
Authors: Yu Okada, Tadashi Hamasaki, Masao Tsuji, Masafumi Iwamoto, Kenichi Hariu, Yukihiko Kankaku, Shinichi Suzuki, Yuji Osawa

View

ADD

Paper Code: TH1.T04.4 **Paper Number:** 3830
Title: TEMPORAL MONITORING OF SUPRAGLACIAL LAKES ON TSHOJO GLACIER AT BHUTAN
Topic: Land: Land Ice and Snow
Session: Active/Passive Microwave Remote Sensing of Terrestrial Snow II
Time: Thursday, July 28, 08:20 - 10:00
Authors: Tsutomu Yamanokuchi, Takeo Tadono, Jiro Komori, Toru Koike, Sachi Kawamoto, Nobuhiro Tomiyama

View

ADD

Paper Code: FR3.T09.3 **Paper Number:** 3835
Title: MULTI INFORMATION BASED GROUND CONTROL POINTS SELECTION METHOD
Topic: Advances in Analysis Techniques (Theoretical): Geographic Information Science
Session: GIS Techniques IV
Time: Friday, July 29, 13:20 - 15:00
Authors: Yanfeng Gu, Zhimin Cao, Ye Zhang, Xiangrong Zhang

View

ADD

Paper Code: TUP.W.1 **Paper Number:** 3837
Title: VOLUME ESTIMATION OF HSIAOLIN LANDSLIDE USING LIDAR DEMS BEFORE AND AFTER MORAKOT EVENT
Topic: Environmental Applications: Geology and Solid Earth
Session: Geology and Solid Earth II

ViewADD **Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Jin-King Liu, Wei-Chen Hsu, Tian-Yuan Shih**Paper Code:** WE2.T01.5**Paper Number:** 3842**Title:** TOMOGRAPHIC PROFILING (TP) - A SCHEME FOR VERTICAL BACKSCATTER PROFILING OF BIOGEOPHYSICAL TARGETS AT CONSTANT INCIDENCE ANGLES**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** Tomography**Time:** Wednesday, July 27, 10:20 - 12:00**Authors:** Keith Morrison, John Bennett**View**ADD **Paper Code:** MO4.T01.5**Paper Number:** 3844**Title:** A UNIFIED MICROWAVE RADIATIVE TRANSFER MODEL WITH JACOBIAN FOR GENERAL PLANAR STRATIFIED MEDIA**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Surface Scattering and Radiative Transfer**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Miao Tian, Albin J. Gasiewski**View**ADD **Paper Code:** TU1.T01.3**Paper Number:** 3845**Title:** SCATTERING FROM TREE BRANCHES USING THE FRESNEL DOUBLE SCATTERING APPROXIMATION**Topic:** Advances in Analysis Techniques (Theoretical): Electromagnetic Modeling**Session:** Volume Scattering**Time:** Tuesday, July 26, 08:20 - 10:00**Authors:** Qianyi Zhao, Roger Lang**View**ADD **Paper Code:** WE3.T06.1**Paper Number:** 3847**Title:** INSAR MONITORING OF COASTAL LANDSLIDES.**Topic:** Environmental Applications: Geology and Solid Earth**Session:** Geology and Solid Earth IV**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Vernon Singhroy, Francois Charboneau, Goran Pavlic, Rejean Couture, Junhua Li**View**ADD **Paper Code:** TUP.D.3**Paper Number:** 3850**Title:** AN AUTOMATIC METHOD TO DETERMINE THE COEFFICIENT OF THE COMPOSITE KERNEL FOR HYPERSPECTRAL IMAGE CLASSIFICATION**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Classification of Hyperspectral Data**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** I-Ling Chen, Kai-Chih Pai, Jinn-Min Yang, Bor-Chen Kuo**View**ADD **Paper Code:** MOP.Y.6**Paper Number:** 3851**Title:** VICARIOUS CALIBRATION CAMPAIGN IN ARGENTINA FOR RADIOMETRIC CALIBRATION OF MULTISPECTRAL IMAGER ON-BOARD SUMBANDILA SATELLITE**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Passive Optical and Hyperspectral Sensors I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Derek Griffith, M Horlent, Guillermo Ibañez, Meena Lysko, Minette Lubbe, Azwitamisi Mudau, Sandra Torrusio, Venkataraman Sivakumar, Lufuno Vhengani

ViewADD **Paper Code:** MO4.T10.1**Paper Number:** 3852**Title:** OBSERVATION OF NATURAL AND ARTIFICIAL FEATURES ON THE SEA SURFACE FROM SAR SATELLITE IMAGERY WITH IN-SITU MEASUREMENTS**Topic:** Oceans: Others**Session:** Oceans II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Chris Maingot, Alexander Soloviev, Mikhail Gilman, Silvia Matt, Jenny Fenton, Susanne Lehner, Domenico Velotto, Stephan Brusch, William Perrie, Biao Zhang**View**ADD **Paper Code:** WEP.P.10**Paper Number:** 3855**Title:** MORPHOLOGY AND CHEMICAL COMPOSITION OF AIRBORNE SAHARAN DUST DURING THE AEROSOL AND OCEAN SCIENCE EXPEDITIONS (AEROSE)**Topic:** Atmosphere: Aerosols and Atmospheric Chemistry**Session:** Aerosols and Atmospheric Chemistry I**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Esther Effiong, Vernon Morris, Nicholas Nalli**View**ADD **Paper Code:** MO4.T03.5**Paper Number:** 3856**Title:** MEASUREMENT OF A TEMPORAL SEQUENCE OF DINSAR PHASE CHANGES DUE TO SOIL MOISTURE VARIATIONS**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture from Microwave Time Series**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Keith Morrison, John Bennett, Matt Nolan, Raghav Menon**View**ADD **Paper Code:** WEP.L.6**Paper Number:** 3858**Title:** KEKESAYI GLACIER VELOCITY EXTRACTION BASED ON THE OFFSETS DERIVED FROM SAR IMAGES**Topic:** Land: Land Ice and Snow**Session:** Active Microwave and Optical Remote Sensing of Snow and Ice**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Shiyong Yan, Huadong Guo, Wenxue Fu, Guang Liu, Zhixing Ruan**View**ADD **Paper Code:** WEP.K.11**Paper Number:** 3859**Title:** EVALUATING THE EFFECT OF SOIL MOISTURE, SURFACE TEMPERATURE, AND HUMIDITY VARIATIONS ON MODIS-DERIVED NDVI VALUES**Topic:** Land: Soils and Soil Moisture**Session:** Soil Moisture Techniques**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Maryam Al-Shehhi, Rasha Saffarini, Ali Farhat, Nada Al-Meqbali, Hosni Ghedira**View**ADD **Paper Code:** WEP.X.6**Paper Number:** 3860**Title:** OPERATIONAL EVALUATION OF DAMAGES IN FLOODED AREAS FROM COSMO-SKYMED IMAGERY**Topic:** Data Management, Dissemination, Education and Policy: Data Management and Systems**Session:** Data Management, Dissemination, Education and Policy**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Giorgio Boni, Elena Angiati, Laura Candela, Fabio Castelli, Silvana Dellepiane, Fabio Delogu, Michaela Demartino, Mattia Fiorini, Gabriele Moser, Nazzareno Pierdicca, Fabio Pintus, Luca Pulvirenti, Roberto Rudari, Sebastiano B.

Serpico, Stefania Traverso, Cosimo Versace

ViewADD **Paper Code:** TUP.B.9**Paper Number:** 3863**Title:** MONITORING CO2 SEQUESTRATION WITH A NOVEL NETWORK INVERSION INSAR METHOD**Topic:** Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR**Session:** InSAR II**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Bernhard Rabus, Jayson Eppler**View**ADD **Paper Code:** TH1.T08.4**Paper Number:** 3864**Title:** EXTRACTION OF WATER SURFACES IN SIMULATED KA-BAND SAR IMAGES OF KARIN ON SWOT**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** SAR Image Processing I**Time:** Thursday, July 28, 08:20 - 10:00**Authors:** Fang Cao, Florence Tupin, Jean-Marie Nicolas, Roger Fjørtoft, Nadine Pourthié**View**ADD **Paper Code:** TUP.M.10**Paper Number:** 3866**Title:** Integrating Optical Image with LIDAR for 3D Fracture Orientation Analysis**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Land Deformation and Floods**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Xiaoling Li, Ye Duan, Wenjun Zeng, Norbert Maerz, James Otoo**View**ADD **Paper Code:** FR4.T06.5**Paper Number:** 3867**Title:** PREDICTING AND MANAGING THE EFFECTS OF EXTREME FLOODS USING ORBITAL REMOTE SENSING**Topic:** Land: Natural Disaster / Land Slide**Session:** Remote Sensing of Natural Hazards and Disasters II**Time:** Friday, July 29, 15:20 - 17:00**Authors:** Robert Brakenridge, Albert Kettner, James Syvitski, Fritz Policelli, Tom De Groeve, Son Nghiem**View**ADD **Paper Code:** TU4.T08.2**Paper Number:** 3868**Title:** INDIRECT DETECTION OF LIQUID HYDROCARBON LEAKAGES ON CONTAMINATED SOIL-VEGETATION SYSTEMS THROUGH REFLECTANCE AND IMAGING (PROSPECTIR-VS) SPECTROSCOPY: A POTENTIAL TOOL FOR EXTENSIVE PIPELINE MONITORING**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Hyperspectral Monitoring of the Environment I**Time:** Tuesday, July 26, 15:20 - 17:00**Authors:** Carlos Roberto Souza Filho, Lucíola Magalhães, Giuliana Quitério, Marcos Nopper, Teodoro Almeida, Wilson Oliveira, Lis Rabaco, Renato Rocha**View**ADD **Paper Code:** TUP.U.7**Paper Number:** 3869**Title:** DISASTER RESPONSE USING LABORATORY SPECTROSCOPY AND HYPERSPECTRAL DATA FROM AVIRIS AND HYMAP**Topic:** Environmental Applications: Pollution and Contamination**Session:** Pollution and Contamination I**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Todd Hoefen, Roger Clark, Raymond Kokaly, Gregg Swayze, Keith Livo, Geoffrey Plumlee, Gregory Meeker

[View](#)ADD **Paper Code:** WE3.T06.5**Paper Number:** 3871**Title:** OFFSHORE HYDROCARBON SEEPAGE MAPPING THROUGH HYPERSPECTRAL AND MULTISPECTRAL DATA: A POSSIBLE MEANS FOR REMOTELY ESTIMATING THE TIMING OF OIL EXPOSITION OVER WATER**Topic:** Advances in Analysis Techniques (Theoretical): Hyperspectral Sensing**Session:** Geology and Solid Earth IV**Time:** Wednesday, July 27, 13:20 - 15:00**Authors:** Talita Lammoglia, Carlos Roberto Souza Filho[View](#)ADD **Paper Code:** WE4.T03.2**Paper Number:** 3873**Title:** ITERATIVE NONLINEAR TIKHONOV ALGORITHM WITH CONSTRAINTS FOR INVERSE SCATTERING TOMOGRAPHY**Topic:** Sensors and Platforms: Active Microwave**Session:** New Active Microwave Instruments**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Manohar Deshpande, Feng Xu[View](#)ADD **Paper Code:** TUP.X.6**Paper Number:** 3874**Title:** OPTIMAL FILTERING OF GAIN AND OFFSET ESTIMATES FOR PASSIVE AIRBORNE RADIOMETER MEASUREMENTS FROM THE AMISA 2008 ARCTIC SCIENCE CAMPAIGN**Topic:** Sensors and Platforms: Radiometer Instruments and Calibration**Session:** Microwave Radiometer Calibration and RFI Mitigation**Time:** Tuesday, July 26, 17:00 - 18:30**Authors:** Michael L. Zucker, Albin J. Gasiewski[View](#)ADD **Paper Code:** FR3.T02.1**Paper Number:** 3875**Title:** P-band Polarimetric and Interferometric SAR Measurement of Tropical Forest Structure and Biomass**Topic:** Invited Sessions: Advances in the retrieval of forest biomass from P-band SAR data: The BIOMASS mission**Session:** Advances in the Retrieval of Forest Biomass from P-band SAR Data: The BIOMASS Mission**Time:** Friday, July 29, 13:20 - 15:00**Authors:** Sassan Saatchi, Maxim Neumann, Thuy LeToan, Pascale Dubois-Fernandez, Jerome Chave[View](#)ADD **Paper Code:** FR2.T02.1**Paper Number:** 3876**Title:** USE OF RADIOMETRIC TERRAIN CORRECTION TO IMPROVE POLSAR LAND COVER CLASSIFICATION**Topic:** Invited Sessions: Mitigaing Terrain Effects on PolSAR Classification**Session:** Mitigating Terrain Effects on PolSAR Classification**Time:** Friday, July 29, 10:20 - 12:00**Authors:** Don Atwood, David Small[View](#)ADD **Paper Code:** TU3.T05.5**Paper Number:** 3877**Title:** Introducing Radar Forest Degradation Index (RFDI) from L-band Polarimetric SAR**Topic:** Land: Forests and Vegetation**Session:** SAR/Lidar Sensing II**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Sassan Saatchi[View](#)**Paper Code:** MOP.F.6**Paper Number:** 3878

ADD **Title:** POLARIMETRIC OPTIMIZATION FOR BIOPHYSICAL PARAMETER ESTIMATION**Topic:** Advances in Analysis Techniques (Theoretical): POL and POLInSAR**Session:** Polarimetric SAR I**Time:** Monday, July 25, 17:00 - 18:30**Authors:** Maxim Neumann

View

Paper Code: WEP.N.7**Paper Number:** 3880ADD **Title:** CONTINUOUS DAY-NIGHT MEASUREMENTS OF CLOUD FRACTION AND CLOUD RADIATIVE EFFECTS WITH INFRARED IMAGERS**Topic:** Atmosphere: Precipitation and Clouds**Session:** Precipitation and Clouds IV**Time:** Wednesday, July 27, 17:00 - 18:30**Authors:** Joseph Shaw, Paul Nugent, Sabino Piazzolla

View

Paper Code: TU3.T04.1**Paper Number:** 3883ADD **Title:** TANDEM-L: A MISSION PROPOSAL FOR MONITORING DYNAMIC EARTH PROCESSES**Topic:** Sensors and Platforms: SAR Instruments, Missions and Calibration**Session:** SAR Missions and Instruments III**Time:** Tuesday, July 26, 13:20 - 15:00**Authors:** Alberto Moreira, Gerhard Krieger, Marwan Younis, Irena Hajnsek, Konstantinos Papathanassiou, Michael Eineder, Francesco de Zan

View

Paper Code: MO4.T08.4**Paper Number:** 3885ADD **Title:** GPU-BASED SPATIALLY DIVIDED PREDICTIVE PARTITIONED VECTOR QUANTIZATION FOR GIFTS ULTRASPECTRAL DATA COMPRESSION**Topic:** Advances in Analysis Techniques (Theoretical): Image Processing**Session:** Emerging Trends and Challenges in Remote Sensing Data Processing II**Time:** Monday, July 25, 15:20 - 17:00**Authors:** Shih-Chieh Wei, Bormin Huang

View

Paper Code: MO3.T04.2**Paper Number:** 3890ADD **Title:** EXPERIMENTS OF SATELLITE DATA SIMULATION BASED ON THE COMMUNITY LAND MODEL AND SCE-UA ALGORITHM**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** US Joint Polar Satellite System I**Time:** Monday, July 25, 13:20 - 15:00**Authors:** Shenglei Zhang, Jiancheng Shi, Youjun Dou, Xiaojun Yin, Liying Li, Chenzhou Liu

View

Paper Code: WE4.T07.1**Paper Number:** 3891ADD **Title:** Development of GPU-based RTTOV-7 IASI and AMSU-A Forward Models**Topic:** Atmosphere: Weather Prediction and Data Assimilation**Session:** Weather Prediction and Data Assimilation I**Time:** Wednesday, July 27, 15:20 - 17:00**Authors:** Jarno Mielikainen, Bormin Huang, Hung-Lung Allen Huang, Roger Saunders

View

Paper Code: MO4.T05.2**Paper Number:** 3893ADD **Title:** USE OF MODIS DATA TO AUTOMATICALLY MAP THE AGRICULTURAL FRONTIER IN THE BRAZILIAN AMAZON AND ITS IMPACTS**Topic:** Land: Land Use and Land Cover Change**Session:** Land Use and Land Cover Change II

Time: Monday, July 25, 15:20 - 17:00

Authors: Damien Arvor, Margareth Meirelles, Vincent Dubreuil, Rodrigo Ferraz

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ADD

Paper Code: WE2.T01.3

Paper Number: 3894

Title: MULTI-COMPONENT NONLINEAR MOTION ESTIMATION IN DIFFERENTIAL SAR TOMOGRAPHY – THE TIME-WARP METHOD

Topic: Advances in Analysis Techniques (Theoretical): InSAR and High Resolution SAR

Session: Tomography

Time: Wednesday, July 27, 10:20 - 12:00

Authors: Xiao Xiang Zhu, Richard Bamler

View

ADD

Paper Code: WE1.T02.3

Paper Number: 3895

Title: The TanDEM-X Space Segment

Topic: Sensors and Platforms: Others

Session: TanDEM-X Commissioning Phase Results I

Time: Wednesday, July 27, 08:20 - 10:00

Authors: Christoph Giese, Dieter Ulrich

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Either BOF or EOF is True, or the current record has been deleted. Requested operation requires a current record.

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