

## IMAGE ANALYSIS AND DATA FUSION

# IADF

**Committee Co-Chairs:** IADF\_CHAIRS@GRSS-IEEE.ORG

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The **Image Analysis and Data Fusion** Technical Committee (IADF TC) is a global discussion forum for data fusion specialists, industry, and the general public, where we promote image analysis and data fusion as means to tackle new societal challenges via remote sensing data analysis. We focus on “multi+” problems: multi-temporal, multi-source, multi-resolution, and generally multi-modal data. Since 2006 IADF TC has organized an annual data fusion contest, a scientific challenge aimed at promoting and evaluating new methodologies by addressing new “multi+” data fusion challenges.



## MODELING IN REMOTE SENSING

# MIRS

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RADI

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**Dr. John Kerekes**

RIT

The mission of the **Modeling in Remote Sensing** Technical Committee (MIRS TC) is to serve as a technical and professional forum for advancing the science of predicting remotely sensed observations from first principles theory. The MIRS TC addresses the technical space between the fundamentals of electromagnetic theory and data collected by remote sensing instruments. It focuses on models and techniques used to take geometric, volumetric and material composition descriptions of a scene along with their EM (e.g., scattering, absorption, emission, optical BRDF, dielectric properties, etc.) attributes and predict the resulting observation for a given remote sensing instrument.



TanDEM-X  
Mission



# MIRS

# FARS

# IFT

# GSIS

# IADF

# GSEO

# ESI

## INSTRUMENTATION AND FUTURE TECHNOLOGIES

# IFT

**Committee Co-Chairs:** IFT\_CHAIRS@GRSS-IEEE.ORG

**Dr. Upendra N. Singh**

NASA Langley

**Dr. Marwan Younis**

DLR

**Dr. Georgios Tzeremes**

ESA

The **Instrumentation and Future Technologies** Technical Committee's (IFT TC) mission is to facilitate, engage and coordinate GRSS members and the communities-at-large to: assess the current state-of-the-art in remote sensing instruments and technology, identify new instrument concepts and relevant technology trends, and recognize enabling technologies for future instruments. The committee actively promotes and provides insight to institutions and industry on remote sensing instrument and technology development.



## Geoscience and Remote Sensing

# GRSS

Technical Committees





GRSS-IEEE.ORG

## GRSS Technical Committees

**Technical Committee Chair: Dr. Irena Hajnsek**  
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The Geoscience and Remote Sensing Society has established a number of Technical Committees to actively promote discussion and advances in areas of member technical interests. Activities of the Technical Committee include networking within the scientific topic, organization of thematic workshops, education of young professionals, and organization of special sessions at IGARSS along with hosting committee meetings open to all IGARSS participants. In the following a list of current technical committees, brief statement of interest and main mission are provided.



### EARTH SCIENCE INFORMATICS

ESI

**Committee Co-Chairs:** ESI\_CHAIRS@GRSS-IEEE.ORG

<b>Dr. Peter Baumann</b>	JACOBS UNIVERSITY
<b>Dr. Rahul Ramachandran</b>	NASA MSFC
<b>Dr. Peng Yue</b>	WUHAN UNIVERSITY

The mission of the **Earth Science Informatics** Technical Committee (ESI TC) is to advance the application of informatics to the geosciences and remote sensing community, to provide a venue for ESI professionals to exchange information and knowledge, and to give technology advice to major national and international ESI initiatives.



### GRSS STANDARDS FOR EARTH OBSERVATION

GSEO

**Committee Co-Chairs:** GSEO\_CHAIRS@IEEE-GRSS.ORG

<b>Siri-Jodha Singh KHALSA</b>	UNIVERSITY OF COLORADO
<b>Kevin Romero</b>	NORTHROP GRUMMAN

The mission of the **GRSS Standards for Earth Observation** (GSEO) is to advance the usability and uptake of remote sensing products by convening experts from academia, industry and government to create and promote standards and best practices. Working groups identify where standardization can improve the generation, distribution and utilization of interoperable data products from remote sensing systems and then work with existing Standards Development Organizations such as IEEE, OGC and ISO to publish standards that will be widely adopted.



### FREQUENCY ALLOCATIONS IN REMOTE SENSING

FARS

**Committee Co-Chairs:** FARS\_CHAIRS@GRSS-IEEE.ORG

<b>Dr. Paolo de Matthaeis</b>	NASA GFSC
<b>Dr. Roger Oliva Balague</b>	ESA
<b>Dr. Yan Soldo</b>	NASA GFSC

The mission of the **Frequency Allocations in Remote Sensing** Technical Committee (FARS TC) is to interface between GRSS membership and frequency regulatory process. This includes educating members on current spectrum management issues and processes relevant to remote sensing, and coordinating GRSS technical recommendations to regulatory organizations. The committee also tracks current and future spectrum user requirements, investigates potential interference issues and promotes the development of detection and mitigation techniques.



### GEOSCIENCE SPACEBORNE IMAGING SPECTROSCOPY

GSIS

**Committee Co-Chairs:** GSIS\_CHAIRS@GRSS-IEEE.ORG

<b>Dr. Cindy Ong</b>	CSIRO
<b>Dr. Uta Heiden</b>	DLR
<b>Dr. Andreas Mueller</b>	DLR

The **Geoscience Spaceborne Imaging Spectroscopy** Technical Committee (GSIS TC) provides a community of practice for all stakeholders engaged in spaceborne imaging spectroscopy with an emphasis on geoscientific applications. The mission of the GSIS TC is to share information on future spaceborne imaging spectroscopy ("hyperspectral") missions, to provide opportunities for new partnerships among national space agencies, commercial spaceborne imaging spectroscopy data providers, research institutions and user community, and, to build a knowledge base on underpinning capabilities required for imaging spectroscopy missions to enable use of spaceborne imaging spectroscopy by the geoscientific community.

