Technical Committees: JOIN US!

http://www.grss-ieee.org/community/technical-committees/GRSS

GRSS TECHNICALCOMMITTEES

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.

EARTH SCIENCE INFORMATICS- ESI

The mission of the Earth Science Informatics Technical Committee (ESI TC) is to advance the application of informatics to the geoscience 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.

FREQUENCY ALLOCATIONS IN REMOTE SENSING- FARS

The mission of the Frequency Allocations in Remote Sensing Technical Committee (FARS TC) is to interface between the GRSS membership and the frequency regulatory process. This includes educating the membership of current frequency management issues, processes and influencing regulatory efforts by organizing a GRSS response. We coordinate GRSS technical recommendations and responses to regulatory organizations. We track current and future user spectrum requirements, investigate potential interference issues and promote the development of interference mitigation techniques.

INSTRUMENTATION AND FUTURE TECHNOLOGIES- IFT

The mission of the Frequency Allocations in Remote Sensing Technical Committee (FARS TC) is to interface between the GRSS membership and the frequency regulatory process. This includes educating the membership on current frequency management issues, processes and influencing regulatory efforts by organizing a GRSS response. We coordinate GRSS technical recommendations and responses to regulatory organizations. We track current and future user spectrum requirements, investigate potential interference issues and promote the development of interference mitigation techniques.

IMAGE ANALYSIS AND DATA FUSION – IADF

The IADF 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.

GEOSCIENCE SPACEBORNE IMAGING SPECTROSCOPY – GSIS

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.

MODELLING IN REMOTE SENSING

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.

www.grss-ieee.org

OUR MISSION

The Geoscience and Remote Sensing Society seeks to advance science and technology in geoscience, remote sensing and related fields using conferences, education, and other resources.

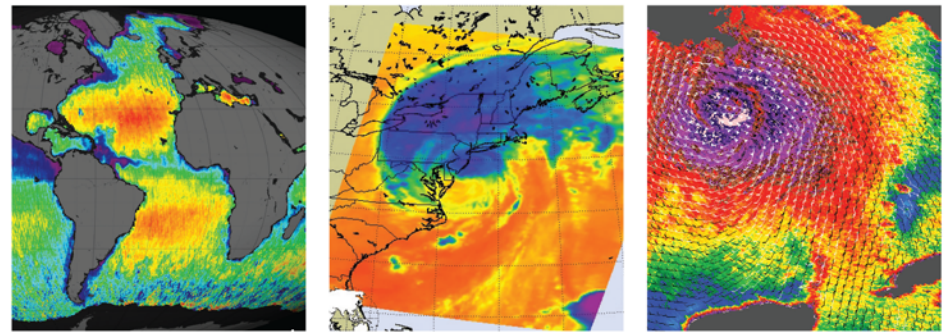
Fields of Interest

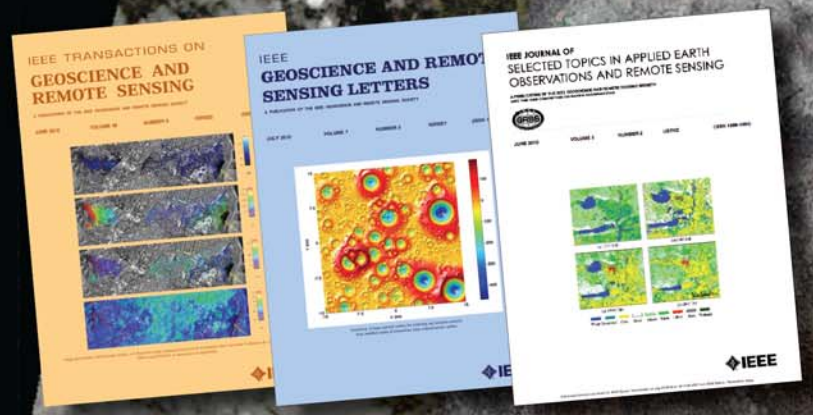
The fields of interest of the Society are the theory, concepts, and techniques of science and engineering as they apply to the remote sensing of the Earth, oceans, atmosphere, and space, as well as the processing, interpretation and dissemination of this information.

- Remote Sensing of Land and Surface Processes
- Remote Sensing of the Atmosphere and Oceans
- Remote Sensing of the Cryosphere
- Remote Sensing of Solid Earth and Geodynamic Processes
- Remote Sensing and Mitigation of Natural Disasters
- Remote Sensing Analysis Techniques
- Electromagnetics and Radiative Transfer
- Sensors and Platforms
- Education and Policy

GRSS MEMBERS HAVE BOTH SCIENTIFIC AND ENGINEERING BACKGROUNDS.

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





WHY JOIN GRSS?

- Develop relationships with world leaders in remote sensing
- Work with like-minded researchers and developers to make a difference in the world through remote sensing
- Gain visibility and access to international programs and research opportunities
- Connect to industry as a market for your remote sensing ideas and as a potential employer
- Benefit from the stimulating mix of theory and practice in remote sensing
- Benefit from the broad spectrum of interests of GRSS members – optical, microwave, hyperspectral, and systems
- Apply for student research and travel scholarships

PUBLICATIONS

www.grss-ieee.org/publications/transactions

TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING (TGRS)
TGRS, our flagship journal, publishes advances in sensing instruments and techniques used for the acquisition of geoscientific information as well as techniques for processing, enhancing and interpreting information derived from remote sensing instruments. Online access to TGRS is provided with GRSS membership.

GEOSCIENCE AND REMOTE SENSING LETTERS (GRSL)
GRSL is a monthly publication for short papers addressing new ideas and formative concepts in remote sensing as well as important timely new results. GRSL encourages the incorporation of "extended objects" or "multimedia" such as animations to enhance the shorter papers. Online access to GRSL is provided with GRSS membership.

JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATION AND REMOTE SENSING (JSTARS)
JSTARS addresses current issues and techniques in applied remote and in situ sensing, their integration, and applied modeling and information creation for understanding the Earth. Applications include the Earth's land, oceans and atmosphere. Online access to JSTARS is provided with GRSS membership.

GEOSCIENCE AND REMOTE SENSING MAGAZINE (GRSM)
The GRS Magazine is an information resource for GRSS members, the greater membership of the IEEE, and the global community of individuals interested in the science and engineering of remote sensing of the Earth's land, oceans, and atmosphere. It is a quarterly publication featuring articles of general interest and, more specifically, tutorials, descriptions of research laboratories, activities of the Space Agencies, new satellites and sensors.

GRSS NEWSLETTER
The GRSS Newsletter is distributed via e-mail every month to GRSS members with information about the most important event and the news of their interest.

BEING A MEMBER OF GRSS PROVIDES ONLINE ACCESS TO ALL OF THE CONTENTS OF THE JOURNALS PUBLISHED BY THE SOCIETY, THE MAGAZINE AND THE NEWSLETTER.

CHAPTERS

A GRSS Chapter is a group within an IEEE Section (or Sections) with a formal GRSS association. Chapters are the local links to the valuable resources available from IEEE and the 39 IEEE Technical Societies. Their activities may include guest speakers, workshops, and seminars as well as social functions. Chapters provide Society members with valuable opportunities to network at a local level, enabling their personal and professional growth. More info on chapters: http://www.ieee.org/societies_communities/geo_activities/chapters/index.html

The procedure to establish a new Chapter requires **four steps.**

1. Find at least **12 GRSS members** "in good standing" willing to be founders of this Chapter.
2. Prepare a petition collecting the IEEE membership numbers and the signatures of these people. In addition, it is required to write a business plan for the first year of the Chapter.
3. Ask for the **approval of the parent Section,** i.e., the Section(s) of the geographical area(s) to which the Chapter pertains. Please note that the Chapter founding members must have been IEEE members for at least one year, and GRSS members by at least 6 months. Additionally, some Sections have other requirements (e.g., Chapter founding members must come from more than one university).
4. **Send these documents and the Section approval via e-mail** to the IEEE MGA staff for final approval, pending the agreement of GRSS officials.

The procedure to establish a chapter is described in detail on the IEEE web site, at http://www.ieee.org/societies_communities/geo_activities/chapters/creating_a_chapter.html.

GRSS CHAPTERS 2017