



















Technical Activities

- Earth Science Informatics
- Frequency Allocation in Remote Sensing
- Geoscience Standards in Farth Observation
- Geoscience Spaceborne Imaging Spectroscopy
- **Image Analysis and Data Fusion**
- Instrumentation and Future Technologies
- Modeling in Remote Sensing
- Quantum Earth Science and Technology
- Remote Sensing Environment Analysis, and Climate Technologies





Chairs

Irena Hajnsek, ETH/DLR, Germany (Past CHair) Adnan Siddique, ITU, Lahore (Chair) Subit Chakrabarti, Floodbase, USA (Chair Elect) Ryo Natsuaki, University of Tokyo, Japan Andrea Donnellan, Purdue University, USA

Local Focus Area Lead

Delwyn Moller, RESTORE LAB
Esra Erten, Istanbul Technical University, Turkey
Dipankar Mandal, Indian Institute of Technology Guwahati
Adnan Siddique, Information Technology University, Lahore
Jacob Steiner, Himalayan University Consortium
Subit Chakrabarti, Floodbase, USA
Pooja Shah, University of Tasmania
Yifang Ban, KTH Royal Institute of Technology

Young professional support

Rabia Munsaf Khan, SUNY ESF, USA (stepped down) Anuva Chowdhury (new liaison)

Liaison Standards Committee:

Tianlin Wang, JPL, USA



Local Focus Area

- Gathering a community, that is working together on a common region
- A variety of methods and techniques are used to explore different applications domains
- Meeting SDGs and climate issues using remote sensing
- Local issues transferable to global issues
- Define current and future use cases in the local areas
- Interdisciplinary and multi-cultural

NEW:

- Extension of LFA with Forest/Mangrove
- Further extension on cryosphere topic is planned



EO4SDG Mini Projects & Foto Contest 2021-24







IEEE GRSS MicrowAve MonItoring of WATer with Applications (MAMI WATA) Workshop



- Second edition (after MAMI WATA 2023)
- 2-day course on remote sensing of inland water, wetland, inundation
 - User needs, use cases
 - SAR, altimeter, GNSS Reflectometry, SWOT
 - Models
- 2-day Workshop on the same topics
- Hybrid (in person and remotely)
- Hosted by Sapienza University of Rome (IT) on 18-21
 November 2025
- Travel grants for students and Young Researchers
- Best student presentation prize
- In collaboration with REACT, GRSS Chapters in Italy
- IEEE GRSS West Africa Workshop 2025 will join MAMI WATA on November 20, 2025



Hosted by:

In collaboration with IEEE Chapters: GRSS-SI, GRSS CNI, OES Ital

professionals (YP) members upon request. Awards will be allocated through a review

process. For more details, please visit IEEE GRSS MIRS TC: https://loom.lv/nSI9LMo

Planned Activities 2025



Summerschools 2025

- REACT SAR course connected to APSAR October 04th, 2025 (Ryo Natsusaki)
- REACT Urban resilience course connected to the local community in Australia November 2025 (Pooja Shah)

IGARSS 2025

- REACT technical committee session (Monday 17:00-18:30)
- CCS: RS to Quantify & Monitor Earth Dynamics in Support of SDG and Climate Related Impacts: Methods and Applications (Thursday TH1.B2 08:00-09:15)

Webinar 2025

- Jan25: Prof. Dr. Subimal Ghosh
- Feb25: Prof. Dr. Yifang Ban
- March25: Dr. Jakob Grahn
- April25: Dr. Aleah N. Summers
- June25: Prof. Dr. Ioannis Papoutsis
- July25: Prof. Dr. Aleah Summer







We are a member of EO4SDG!





GEO Working group on SDG

- REACT member of GEO EO4SDG (since 11 June 2024)
- Contribution to the BLOG of EO4SDG (Dec 2024)

REACT - Remote sensing Environment, Analysis and Climate Technologies









Irena Hajnsek from ETH Zurich Switzerland and the German Aerospace Center, Germany is leading the IEEE Geoscience and Remote Sensing Societies Technical Committee named REACT. REACT has several local focus areas. Adnan Siddique and Jakob Steiner, from ITU Lahore, Pakistan and University of Graz, Austria, respectively, are co-leading the focus area on "Risks in High Mountain Asia."

REACT - Remote sensing Environment, Analysis and Climate Technologies

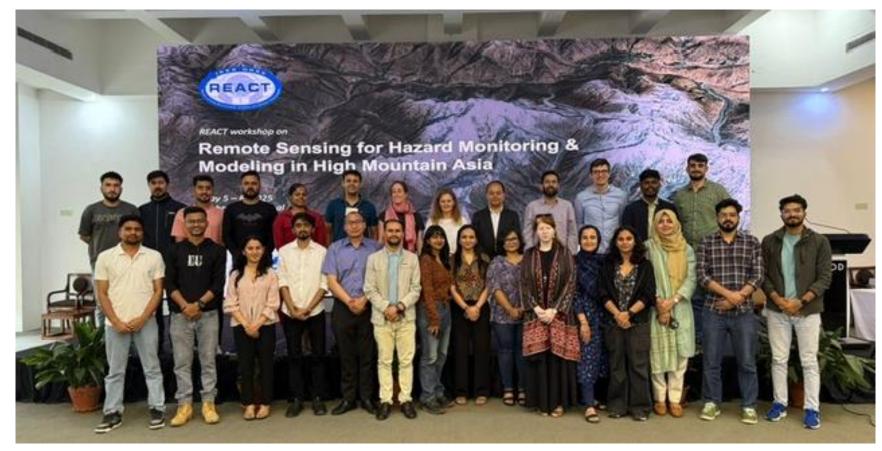


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Risks in High Mountain Asia (Adnan Siddique and Jakob Steiner)













20 students from the Karakorum region (India, Pakistan, Nepal, Buthan, Bangladesh) Resource persons: Franz Meyer, Jakob Steiner, Adnan Siddique, Aleah Sommers, Rashmi Shah, Saurabh Vijay, Irena Hajnsek

How we can support the Pacific Islands?





Climate related issues: See level rise, extreme weather events, ocean acidification, floodings, deforestation, drought, etc.

- Education on RS (Summer schools)
- Workshop raising awareness what RS can do!
- Science Citizen involve local communities actively to participate to climate related issues in their neighborhood
- Help to develop RS tools to monitor climate effects
- Capacity Building interchange and exchange with experts
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