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Analysis of SAR/InSAR Data in Geoscience

Guest Editors:

Dr. Yasser Maghsoudi

COMET, School of Earth and Environment, University of Leeds, LS2 9JT, UK

Prof. Dr. Mahdi Motagh

Department of Geodesy, GFZ German Research Center for Geosciences, Potsdam, and Institute of Photogrammetry and GeoInformation, Leibniz University Hannover, Hannover, Germany

Dr. Francesca Cigna

Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Via del Fosso del Cavaliere 100, 00133 Rome, Italy

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Message from the Guest Editors

Over the past two decades, SAR/InSAR technology has become a powerful yet inexpensive tool in many remote sensing applications. Thanks to a larger number of SAR sensors, including the high-resolution German TerraSAR-X/TanDEM-X, the Italian COSMO-SkyMed First and Second Generation, and the European Commission's Copernicus Sentinel-1 constellations, a massive volume of high-quality SAR observations with spatial (1–15 m) and temporal resolutions (1–16 days) has become available.

Despite this unique opportunity, the huge amount of SAR data and the associated complexity make the processing of SAR and InSAR data a challenging task.

This Special Issue invites contributions on reviewing the current progress and highlighting the latest advances in SAR/InSAR processing techniques in various geoscience applications, including:

- The exploration of new techniques and algorithms as well as the assessment of existing methods for SAR data processing.
- Innovative geoscience applications of SAR/InSAR data.
- Cloud/grip processing approaches/infrastructure for big data analysis.
- Using machine learning and explainable AI in SAR data analysis.



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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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