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Analysis of SAR/InSAR Data in Geoscience

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closed (15 June 2024)

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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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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