Special Issue

Applications of Synthetic Aperture Radar (SAR) in Natural Hazard

Message from the Guest Editors

The Special Issue's potential topics include, but are not limited to:

- SAR-based monitoring and characterization of floods, landslides, earthquakes, volcanic eruptions, and related hazards
- Advanced SAR data processing methods and novel algorithms for accurate hazard detection
- Multi-temporal and interferometric SAR (InSAR) methodologies for ground deformation analysis
- Integration of SAR and optical data, alongside other ancillary datasets, for comprehensive hazard evaluation
- Application of machine learning and deep learning techniques in SAR image interpretation for hazard prediction
- Deep learning approaches specifically tailored for SAR imagery classification, segmentation, and hazard delineation
- SAR time-series deformation analysis and change detection methods for hazard monitoring
- Advanced segmentation techniques and their applications in hazard identification and assessment
- Validation frameworks and accuracy assessments of SAR-derived products under hazard conditions
- Strategic disaster management and emergency response approaches informed by SAR-derived data

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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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