# 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

### Guest Editors

Dr. Mahdi Panahi

Dr. Fatemeh Rezaie

Dr. Mahdi Hasanlou

Dr. Zahra Kalantari

### Deadline for manuscript submissions

30 April 2026

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*Remote Sensing*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/remotesensing

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*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.

## Editors-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

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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