Special Issue

Advanced InSAR Techniques for Geohazard Monitoring and Risk Evaluation

Message from the Guest Editors

Interferometric Synthetic Aperture Radar (InSAR) has become a well-developed technique for monitoring and assessing geohazards. This Special Issue aims to report advanced InSAR techniques to monitor and evaluate geohazards. Topics may cover advanced/enhanced InSAR data processing, interpretation with AI, early warning, risk assessment of geohazards, etc. Geohazard applications may be diverse, including earthquakes, landslides, volcanoes, and ground deformation related to geological, hydrological, and urbanization processes. Articles may address topics including, but not limited, to the following:

- Advanced algorithms for InSAR data processing;
- Enhancing InSAR data processing and interpretation with AI;
- Earthquake monitoring and modelling;
- Landslide detection and monitoring;
- Volcanic activity and eruption prediction;
- Geohazards in urban and its implications for infrastructures;
- Deformation related to other geological and hydrological processes;
- Early warning and risk assessment of geohazards.

Guest Editors

Dr. Bochen Zhang

Dr. Cunren Liang

Dr. Siting Xiong

Prof. Dr. Wu Zhu

Deadline for manuscript submissions

20 December 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/207821

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

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

About the Journal

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.

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)