Special Issue

InSAR for Geohazard Monitoring: From Deformation Detection to Risk Assessment

Message from the Guest Editors

This Special Issue will showcase recent advancements in InSAR technology and its applications in geohazard monitoring, focusing on the entire pipeline from deformation detection to risk assessment. We invite contributions that address both theoretical and practical challenges, including but not limited to the following:

- Advanced InSAR methodologies for improving deformation measurement accuracy and spatial-temporal resolution;
- Multi-source data integration (e.g., combining InSAR with GPS, LiDAR, and optical remote sensing) for enhanced deformation monitoring and interpretation;
- Case studies demonstrating InSAR applications in landslides, ground subsidence, seismic activity, volcanic deformation, and glacier dynamics;
- Early warning systems and risk assessment models leveraging InSAR data for proactive geohazard management;
- Challenges and solutions for InSAR implementation in complex environments (e.g., vegetated areas, steep terrains, and urban settings).

Guest Editors

Prof. Dr. Xianmin Wang
Dr. Zhengjia Zhang
Dr. João Catalão Fernandes

Deadline for manuscript submissions

15 April 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/256541

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

mdpi.com/journal/remotesensing

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 Editorial Board

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

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)