

Special Issue

Remote Sensing of Surface Deformation Using Multi-Temporal SAR Interferometry

Message from the Guest Editors

This Special Issue aims to gather the latest research advances, innovative technologies, and practical applications in the field of surface deformation remote sensing using multi-temporal SAR interferometry. It focuses on promoting in-depth exchanges and discussions among researchers, engineers, and practitioners, and accelerating the transformation and application of MT-InSAR technology in surface deformation monitoring. Suggested themes for submissions include, but are not limited to, the following: innovative MT-InSAR algorithms and data processing techniques; mechanism studies on surface deformation induced by natural and anthropogenic factors based on MT-InSAR monitoring data; application of MT-InSAR in specific scenarios (including urban ground subsidence, seismic deformation, volcanic activity, landslide monitoring, glacier movement, and infrastructure deformation); performance evaluation and optimization of MT-InSAR technology under complex terrain and low-coherence conditions; and integration of MT-InSAR with other remote sensing technologies (such as optical remote sensing, LiDAR) for comprehensive surface deformation monitoring.

Guest Editors

Dr. Xuedong Zhang

Prof. Dr. Lv Zhou

Dr. Mengshi Yang

Dr. Zechao Bai

Deadline for manuscript submissions

31 March 2027



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.4



mdpi.com/si/287236

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

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.4



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



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.

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)