

## Special Issue

# Recent Advances in Multi-Platform SAR for Surface and Structural Deformation Monitoring

### Message from the Guest Editors

Recent developments in SAR platforms, including satellites, aircraft, UAVs, and ground-based radar systems, have greatly improved to measure displacement with high spatial and temporal resolution. These advanced SAR systems complement one another and enable detailed investigations across a range of natural and anthropogenic environments. Surface deformation is closely linked to hazards such as earthquakes, volcanic activity, ground subsidence, and landslides and is important in assessing the stability of urban infrastructure. Accurate and continuous monitoring of surface displacement are essential for understanding its mechanisms and supporting disaster mitigation and early warning. Interferometric radar techniques now play a key role in providing reliable deformation measurements. This Special Issue welcomes studies on methodological advances, improved processing techniques, and practical applications for high-precision deformation monitoring. Topics include InSAR time-series analysis, multi-platform interferometry, UAV-SAR, ground-based radar measurements. We also encourage contributions related to geohazards, infrastructure stability.

### Guest Editors

Dr. Seung Kuk Lee

Department of Earth and Environmental Sciences, Pukyong National University, Pusan 46241, Republic of Korea

Dr. Sang-Hoon Hong

Department of Geological Sciences, Pusan National University, Pusan 46241, Republic of Korea

### Deadline for manuscript submissions

31 May 2026



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/263841](https://mdpi.com/si/263841)

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

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





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



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



## 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)