

Special Issue

Advances in Applications of Remote Sensing GIS and GNSS

Message from the Guest Editors

With the rapid development of GIS, remote sensing, and GNSS research, new theories, methods and applications have emerged, such as the concept of real-time GIS, 3D-GIS, indoor localization and mapping, machine-learning-enabled imagery interpretation and enhancement, positioning and navigation with low-Earth-orbit satellites and cellular networks' comprehensive positioning navigation and timing (PNT)-related techniques, etc. In addition, many new interdisciplinary research topics have become popular, such as vision-based navigation, ground control point (GCP)-free photogrammetry, synthetic aperture radar satellite formation flying, satellite-image-based disaster monitoring systems, and resource management. The scope of this Special Issue includes but is not limited to advanced GNSS signal processing and new GNSS positioning theory, GNSS meteorology-related topics and the fusion of GIS, RS and GNSS techniques and the applications to environmental change detection, disaster resilience planning, monitoring land use and land cover changes, smart cities, etc.

Guest Editors

Dr. Bing Xu

Dr. Lei Wang

Dr. Qian (Chayn) Sun

Dr. Panagiotis Partinevelos

Deadline for manuscript submissions

closed (30 October 2025)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/181370

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 4.1
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)