

Special Issue

Multimodal Remote Sensing Data Fusion, Analysis and Application

Message from the Guest Editors

This Special Issue contributes to the advancement of cutting-edge AI technologies in remote sensing and data fusion, fostering innovation in analyzing complex, multi-modal RS data. By focusing on AI-driven methodologies, the Special Issue promotes the development of accurate multi-modal RS datasets, and more robust, efficient data fusion frameworks, which have significant implications for various applications such as environmental monitoring, urban planning, and disaster management. This Special Issue invites contributions that address innovative algorithms, models, and techniques in remote sensing image processing and multidisciplinary cross application. Topics of interest include, but are not limited to the following:

- Multi-modal datasets (e.g., multispectral, hyperspectral, SAR, geospatial big data);
- Multi-modal data fusion models;
- Building damage assessment;
- Change detection;
- Image-to-image translation;
- All-weather mapping;
- Applications in disaster emergency response;
- Applications in environmental monitoring;
- Applications in urban sustainable development.

Guest Editors

Dr. Xiaoyan Lu

Dr. Yuting Wan

Dr. Zhuo Zheng

Dr. Ce Zhang

Deadline for manuscript submissions

31 August 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/229517

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 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)