Special Issue

High-Resolution Remote Sensing Image Processing and Applications

Message from the Guest Editors

High-resolution imagery is crucial for remote sensing research and applications. The objective of this Special Issue is to unearth and share breakthrough achievements in high-resolution remote sensing image processing and its extensive application areas, including but not limited to:

- Advanced super-resolution techniques for high-resolution remote sensing images;
- Remote sensing image registration and fusion;
- Intelligent fusion methods for multi-source high-resolution images;
- 3D reconstruction and visualization in high-resolution remote sensing;
- Deep learning methods for high-resolution satellite image processing and interpretation;
- Object detection and analysis for high-resolution remote sensing images;
- Semantic segmentation for high-resolution remote sensing images;
- Change detection for multi-temporal images;
- Remote sensing vision-language models;
- Artificial intelligence for unmanned aerial vehicle remote sensing;
- High-resolution remote sensing for environmental monitoring;
- High-resolution remote sensing in agriculture;
- High-resolution remote sensing for urban planning;
- High-resolution remote sensing for disaster management and emergency response.

Guest Editors

Dr. Kai Xu

Dr. Yixiang Chen

Prof. Dr. Kun Qin

Deadline for manuscript submissions

28 September 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/236051

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

mdpi.com/journal/remotesensing

MDPI

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 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)