

Special Issue

Intelligent Image Analysis: Advancing Remote Sensing with Artificial Intelligence

Message from the Guest Editors

The rapid evolution of remote sensing technologies has enabled daily acquisition of massive remote sensing images (RSIs). However, the exponential expansion of RSIs in terms of volume, diversity, and complexity has fundamentally challenged the conventional image analysis methods reliant on manually crafted features and shallow machine learning architectures. Therefore, we have organized a Special Issue titled “Intelligent Image Analysis: Advancing Remote Sensing with Artificial Intelligence” in *Remote Sensing*. This Special Issue aspires to create a platform to share and discuss studies on advanced AI technology for RSI analysis. The research topics cover classification, detection, segmentation, and other image analysis tasks, and the data sources include, but are not limited to, optical, hyperspectral, and SAR. We welcome submissions relevant to intelligent RSI interpretation, remote sensing foundation models, multi-modal RSI analysis, remote sensing 3D reconstruction, open-world RSI interpretation, and other remote sensing interpretation applications with advanced AI technology.

Guest Editors

Prof. Dr. Yangyang Li

Dr. Tianyang Zhang

Dr. Xinghua Li

Deadline for manuscript submissions

29 October 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/236481

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)