



Machine Learning Approaches for Semantic and Instance Segmentation in Remote Sensing

Guest Editors:

Dr. Amin Zehabian

Dr. Roozbeh Rajabi

Prof. Dr. Pedram Ghamisi

Dr. Keshav Singh

Deadline for manuscript
submissions:

31 March 2025

Message from the Guest Editors

We are thrilled to announce the continuation of our successful Special Issue in the journal *Remote Sensing*. This volume invites contributions from researchers specializing in semantic and instance segmentation for remotely sensed imagery. This encompasses cutting-edge machine learning and deep learning approaches that are applicable to a wide spectrum of remote sensing data, extending beyond hyperspectral images.

Articles may address, but are not limited to, the following topics:

- Semantic and instance segmentation in remote sensing data;
- Supervised machine learning for image segmentation and object detection;
- Deep learning techniques for multispectral/hyperspectral image analysis;
- Novel approaches for feature extraction;
- Insights from applying state-of-the-art deep learning scenarios.





an Open Access Journal by MDPI

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

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.

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)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)