Special Issue

Advanced Object Detection, Classification and Recognition in VIR Optical and SAR Remote Sensing Imagery

Message from the Guest Editors

This Special Issue aims to gather cutting-edge research that spans the full spectrum of VIR optical and SAR image analysis, from low-level image processing to high-level object detection, classification and recognition. Contributions may address pixel-level or object-level targets and are encouraged to focus on these core tasks within remote sensing imagery. Particular emphasis is placed on deep-learning methods that operate across multiple spatial, spectral, spatiotemporal and frequency domains, supporting tasks such as object detection, tracking, semantic segmentation and so on.

- Visible and infrared remote sensing image object detection;
- SAR target detection;
- Dense small target detection and tracking;
- Arbitrarily oriented object detection;
- Single- and multi-object tracking in VIR or SAR image sequences;
- Open-set, zero-shot and few-shot object recognition;
- Template matching and feature-based target recognition;
- Multi-scale, multi-domain feature learning;
- Joint VIR–SAR analysis for robust object detection and recognition;
- Multispectral image processing and analysis for target detection;
- Hyperspectral image understanding and sub-pixel target recognition.

Guest Editors

Dr. Yuan Liu
Prof. Dr. Chunlai Li
Dr. Dongdong Pang

Deadline for manuscript submissions

30 November 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/280473

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 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)