

Special Issue

Image Fusion and Object Detection Using Multi-Modal Remote Sensing Data

Message from the Guest Editors

This Special Issue aims to study all techniques designed for image fusion and object detection from multi-modal remote sensing data, ranging from multispectral, hyperspectral, panchromatic, thermal, and SAR data.

Topics from conventional machine learning techniques and model-driven techniques to the most recent deep learning techniques may be covered. Applications and reviews about the aforementioned techniques are also welcome for submission to this Special Issue, as they can give helpful guidance for future-related studies. Articles may address, but are not limited, to the following topics:

- Remote sensing image fusion;
- Remote sensing image classification;
- Remote sensing image instance segmentation;
- Object detection and tracking;
- Benchmark dataset creation;
- Deep neural network optimization;
- Multi-modal data analysis and fusion;
- Applications of image fusion;
- Applications of object detection;
- Review of images fusion;
- Review of object detection;
- Review of image classification.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2025)



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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.

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