

## Special Issue

# Artificial Intelligence and Machine Learning for Multi-Modal and Multi-Spectral Remote Sensing Image Processing

### Message from the Guest Editors

This Special Issue aims to focus on cutting-edge research of artificial intelligence and machine learning technology in multimodal and multispectral remote sensing image processing, invites scholars to submit articles including, but not limited to: 1. Intelligent fusion and feature extraction of multimodal remote sensing data (optical, SAR, hyperspectral, infrared, etc.); 2. Remote sensing image classification, object detection, and semantic segmentation based on deep learning; 3. Application of small-sample/weakly supervised learning in remote sensing image interpretation; 4. Generative models (such as GAN, diffusion models) and remote sensing data augmentation; 5. Dynamic analysis and prediction of time-series remote sensing data; 6. Intelligent Processing of 3D point clouds and stereoscopic remote sensing images; 7. Edge computing and remote sensing real-time processing system; 8. Research on the credibility of explainable AI and remote sensing models; 9. Innovative applications of multimodal remote sensing in fields such as ecology, agriculture, and disasters; 10. Construction of open-source remote sensing datasets and algorithm frameworks.

### Guest Editors

Prof. Dr. Tao Lei

Prof. Dr. Tao Gao

Prof. Dr. Lefei Zhang

Prof. Dr. Asoke K. Nandi

### Deadline for manuscript submissions

30 November 2025



## Remote Sensing

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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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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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