Special Issue

Object Detection in Remote Sensing Imagery

Message from the Guest Editors

This Special Issue aims to bring together the latest progress in object detection techniques and their applications in remote sensing. We encourage submissions that connect algorithmic innovation with practical use, showing how advanced methods can address real-world needs. Novel deep learning and transformer architectures for object detection in very-high-resolution (VHR) imagery;
Multi-scale, weakly supervised, few-shot, and zero-shot learning strategies for complex or data-scarce scenes;
Integration of foundation models and geospatial large models for remote-sensing object detection and mapping;
Cross-modal and multi-source fusion of optical, SAR, LiDAR, and GIS data for improved feature extraction and detection;
Temporal and multi-view object detection for change analysis and dynamic scene understanding;
Development of open benchmark datasets, reproducible workflows, and standardized evaluation protocols in remote-sensing object detection;
Urban mapping, infrastructure monitoring, and informal settlement detection based on object-level analysis;
Agricultural, environmental, and socioeconomic monitoring using object-based indicators derived from remote-sensing imagery.

Guest Editors

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Deadline for manuscript submissions

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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.

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