

Special Issue

Smart Remote Sensing Images Processing for Sensor-Based Applications

Message from the Guest Editors

This Special Issue aims to gather cutting-edge research on innovative applications for remote sensing image processing and sensor-based data analytics. Potential topics include but are not limited to the following:

- AI for Remote Sensing Image Processing and Sensor Data Fusion
 - Machine learning for image classification, segmentation, and object detection.
 - Self-supervised/unsupervised learning for remote sensing data.
 - Multi-modal and multi-temporal data fusion techniques.
- Sensor-Integrated Platforms and Innovations
 - Satellite imagery analysis (high-resolution, hyperspectral, and SAR).
 - UAV/drone-based sensing and real-time processing.
 - Ground-based sensor networks and IoT integration.
- Domain-Specific Applications of Remote Sensing and Sensor Data
 - Environmental monitoring.
 - Atmospheric remote sensing
 - Precision agriculture.
 - Urban planning and smart cities.
 - Climate and oceanography studies.
- Challenges and Future Directions
 - Explainable AI for remote sensing.
 - Edge computing and lightweight models for on-device processing.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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