Special Issue

Advances in Computer Vision and Machine Learning Applications on Remote Sensing Images

Message from the Guest Editors

The primary objective of this Special Issue is to provide a comprehensive overview of the current state-of-the-art methods and innovations in computer vision and machine learning for remote sensing. Articles may address, but are not limited, to the following topics:

- Multimodal and multispectral data fusion;
- Image matching;
- Image quality enhancement;
- Dimensional reduction and clustering;
- Geographic information extraction, such as roads, buildings, and water bodies;
- Object detection and recognition, change detection, and anomaly detection;
- High-fidelity urban 3D modelling and scene simulation;
- Unsupervised and semi-supervised learning;
- Explainable AI (XAI) in remote sensing;
- Real-time processing and edge computing: techniques for the real-time processing of remote sensing data, especially using edge devices and cloud computing platforms;
- Applications in specific domains, such as agriculture (crop monitoring, pest detection), environmental management (deforestation, biodiversity), urban planning (city development, traffic monitoring), and disaster response (flood, wildfire detection).

Guest Editors

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Deadline for manuscript submissions

12 February 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/228486

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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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