Special Issue

Advances in Multi-Dimensional Monitoring of the Environment with Optical Satellite Images

Message from the Guest Editors

Advances in satellite technology have made it possible to use optical images to monitor the environment in multiple dimensions. Among other tasks, these images can be used to track changes in land use, monitor vegetation growth, and health, spot changes in water quality, estimate the size of natural disasters, and map the current status of the environment and ecosystem. In addition, multi-dimensional remote sensing can also provide information on the physical and chemical properties of the environment, which can be used to improve resource management and environmental conservation efforts. Research topics:

- Multisensory–multitemporal data fusion for environmental monitoring applications.
- Integration of in-situ data with optical satellite images for multi-dimensional environmental monitoring applications.
- Machine learning and deep learning-based algorithms for multi-dimensional monitoring applications.
- 3D modelling for change detection, natural disaster management, and urbanization.
- Advances in digital surface/bathymetry model generation from satellite, airborne, or UAV-based systems.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/176404

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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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