



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

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Message from the Guest Editors

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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