

## Special Issue

# Application of Remote Sensing and GIS in Environmental Monitoring

### Message from the Guest Editors

Remote sensing (RS) and geographic information systems (GISs) have become indispensable tools for addressing pressing environmental challenges, offering scalable and cost-effective solutions to monitor dynamic ecosystems, assess human impacts, and guide sustainable decision making. As climate change, urbanization, and resource exploitation intensify, the integration of advanced RS technologies with spatially explicit GIS analytics provides unprecedented opportunities to map, model, and mitigate environmental degradation. This Special Issue seeks to highlight innovative methodologies and applications of RS and GIS in environmental monitoring, emphasizing their role in advancing ecological resilience, resource management, and policy formulation. We invite contributions that explore novel approaches for tracking environmental changes across terrestrial, aquatic, and atmospheric systems. Topics of interest include but are not limited to the following: the use of machine learning for analyzing satellite imagery; time-series analysis of ecosystem dynamics; real-time monitoring of natural disasters; and participatory GIS frameworks for community-driven conservation.

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### Guest Editors

Prof. Dr. Jun Li

Dr. Chengye Zhang

Dr. Yuanheng Sun

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### Deadline for manuscript submissions

31 March 2026



## Sustainability

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