

## Special Issue

# Remote Sensing and GIS Technology Applications for Water Resources and Flood Risk Management in River Basin and Coastal Zones

### Message from the Guest Editors

The integration of remote sensing and GIS technology has become mainstream in water resource and flood risk management in river basins and coastal zones. Recent advancements in remote sensing applications were enabled using satellite and unmanned aerial vehicle (UAV) data, photogrammetry, optical and video image classification, radar precipitation measurements and data assimilation. GIS has further advanced the utility of remote sensing data, providing the best tools for processing hydrology data and supporting modelling at different spatial and temporal scales. Finally, the application of data science, machine learning and artificial intelligence is enabling new and unique applications of remote sensing data for solving water resource problems. The goal of this Special Issue is to collect high-quality and innovative scientific papers describing cutting-edge research on the application of GIS and remote sensing methods from any platform (surface stations, UAV, satellite, aircraft) for water resource modelling and management.

### Guest Editors

Dr. Pierfranco Costabile

Dr. John Kalogiros

Prof. Dr. Venkatesh Merwade

Dr. Jochen E. Schubert

### Deadline for manuscript submissions

closed (20 December 2023)



## Remote Sensing

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CiteScore 8.6



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## About the Journal

### 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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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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