



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

Guest Editors:

Dr. Pierfranco Costabile

Dr. John Kalogiros

Prof. Dr. Venkatesh Merwade

Dr. Jochen E. Schubert

Deadline for manuscript
submissions:

closed (20 December 2023)

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.





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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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