

Special Issue

Environmental Water Monitoring for Sustainable Development in Urban and Rural Areas

Message from the Guest Editors

This special issue aims to publish high-quality research papers on the inter-disciplinary field of real-time water quality and quantity monitoring, flood mapping and risk assessment, using low-cost sensors, satellite images, UAVs, CCTVs, photonic technologies and community-based in-situ observations from social media and crowdsourcing platforms. Big data analytics aim to extract meaningful insights and patterns from very large and heterogeneous data sources in water resource monitoring. Multimodal data fusion aims to effectively combine data and information from the abovementioned technologies. Semantic technologies may also offer novel mitigation strategies through the enrichment of extracted knowledge, interlinking and reasoning for decision-making. Moreover, model-based and simulation-based approaches can be considered to optimize the operation and reduce the risk of an unforeseen event. Novel methodologies, frameworks and tools should include both experimental evaluation and valuable recommendations for policymakers in the water sector.

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Guest Editors

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Deadline for manuscript submissions

closed (31 May 2022)



Sustainability

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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