



Environmental Water Monitoring for Sustainable Development in Urban and Rural Areas

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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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Message from the Editor-in-Chief

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