Special Issue

Use of Remote Sensing Technologies for Water Resources Management

Message from the Guest Editors

This Special Issue emphasizes the application of cutting-edge techniques such as machine learning and deep learning for data processing and analysis and the effective use of traditional analytics and statistical methods. This combined approach aims to support innovative decision making in water resource management, ensuring that advanced and conventional methodologies contribute to solving key water challenges. Applications will span diverse domains, including water quality assessment, flood and drought prediction, agricultural water use optimization, and urban water management. In addition, this Special Issue will highlight how remote sensing is addressing key public health challenges such as hazardous algal blooms (HABs) and waterborne disease monitoring. Remote sensing technologies are crucial in early detection and mitigation of harmful environmental conditions that impact public health, including monitoring pollution and managing waterborne pathogens. This issue aims to advance the resilience of water systems and public health infrastructure by fostering innovative methodologies.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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