Special Issue

Advanced Technologies for Water Quality Monitoring and Prediction

Message from the Guest Editor

Water quality monitoring and prediction are critical for ensuring access to safe and clean water for human consumption, agriculture, and industrial use. The use of advanced technologies in water quality monitoring and prediction has the potential to improve the accuracy and efficiency of water resource management, enabling proactive responses to environmental challenges. The topics of interest include, but are not limited to:

- Advances in sensor technology for water quality monitoring;
- Machine learning algorithms for predicting changes in water quality;
- Applications of big data analytics in water quality management;
- Remote sensing for monitoring water quality over large areas;
- Use of the Internet of Things (IoT) in real-time water quality monitoring and control;
- Environmental monitoring and water resource management for sustainable development;
- Application of advanced technologies in water quality management;
- Challenges and future directions in the development and implementation of advanced technologies for water quality monitoring and prediction.

https://www.mdpi.com/journal/water/special_issues/W77E6419Q1

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Deadline for manuscript submissions

closed (29 April 2024)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/171485

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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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