

Special Issue

Artificial Intelligence in Water Science: Opportunities, Prospects, and Concerns

Message from the Guest Editor

The application of artificial intelligence (AI) in water science is rapidly advancing research and practice. Machine learning, deep learning, and predictive modeling have led to significant advancements in wastewater treatment, pollution monitoring, and water quality optimization. Notable achievements include enhanced flood prediction, real-time water quality monitoring, and improved efficiency in wastewater treatment and irrigation management. AI's ability to process large datasets and improve decision-making supports more effective and sustainable water management practices. These innovations are crucial for addressing global water challenges and ensuring long-term water sustainability. We invite authors to submit original research and review articles that explore the application of artificial intelligence (AI) in conventional water science fields such as wastewater, groundwater, and surface water. Additionally, we encourage submissions that investigate the application of AI in conjunction with materials science, biology, and other related disciplines, to unlock innovative solutions to complex water-related challenges.

Guest Editor

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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

Dr. Jean-Luc PROBST

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