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Using Artificial Intelligence in Water Research

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Message from the Guest Editor

Artificial intelligence (AI) is revolutionizing the field of water management by providing powerful tools and techniques for more informed, efficient, and sustainable decision-making. This promising area of research and practice involves the utilization of AI technologies, such as machine learning, data analytics, and optimization algorithms, to address the intricate challenges associated with water resource management.

AI applications in water management encompass a wide array of tasks, including predictive modeling for water quality assessment and forecasting, optimizing water distribution systems, early warning systems for flood and drought management, water resource allocation and demand forecasting, infrastructure monitoring, and decision support systems for governance.

The primary purpose of this Special Issue is to provide a comprehensive platform for researchers, practitioners, and policymakers to present and discuss their latest research findings, case studies, and innovative solutions that leverage AI to enhance decision-making processes in water management.

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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.

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