Special Issue

Applications of Artificial Intelligence (AI) in Water Resources Systems

Message from the Guest Editor

Artificial Intelligence revolutionizes water resource management by enhancing predictive capabilities, optimizing usage, and improving decision-making processes. In this Special Issue, titled “Applications of Artificial Intelligence (AI) in Water Resources Systems”, machine learning algorithms will be explored in their ability to forecast water demand, detect anomalies in water resource system performance, and model hydrological cycles with unprecedented accuracy. AI-driven tools enable real-time monitoring and adaptive management of water systems, facilitating sustainable practices and resilience against climate variability. This collection highlights innovative applications demonstrating AI’s potential to transform water resource management, addressing challenges from urban planning to agricultural efficiency and beyond.

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Deadline for manuscript submissions

25 October 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/213258

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mdpi.com/journal/water

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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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