Special Issue

Water Environment Modeling, Simulation, Informatics, and Big Data Mining

Message from the Guest Editors

In the current phase of deep integration between digital intelligence and ecological civilization, emerging information technologies such as 5G and artificial intelligence (AI) are fundamentally transforming the underlying frameworks of environmental governance. These advancements are driving significant changes in the monitoring, simulation, management, and evaluation of water environments. The widespread application of modeling, simulation, and big data technologies in water environmental research is providing invaluable insights into the complex interdependencies between water environments, water ecology, and water resources. This Special Issue seeks to explore the latest developments and pioneering applications at the intersection of informatics and water environmental science, with a particular emphasis on how advanced modeling and simulation tools, coupled with data-driven methodologies, can deepen our understanding of water systems and enhance decision-making in water resource management.

Guest Editors

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Deadline for manuscript submissions

30 June 2026

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/262338

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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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