Special Issue

Application of Machine Learning to Water Resource Modeling

Message from the Guest Editor

Water shortages have become a severe problem in many parts of the world. Although a variety of artificial interventions have been used to deal with water shortages, they have brought a series of ecological and environmental problems such as groundwater table decline, vegetation degradation, land desertification, and water quality deterioration, posing great challenges for water resource management. In recent decades, a series of models and tools have been developed for water resource simulation, optimization, and management. However, with the continuous intensification of human activities, the water resource system has gradually become a typical "human-natural coupling system" which interacts with human activities and natural processes. The complex interaction and nonlinear relationship between human systems and natural systems make these natural system-based water resource management tools and models unable to accurately capture and reflect the evolution process of the water resources system.....

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Deadline for manuscript submissions

closed (20 December 2023)



Water

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Impact Factor 3.0 CiteScore 6.0



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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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