Application of Machine Learning to Water Resource Modeling

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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......

Special Issue

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Message from the Editor-in-Chief

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