Special Issue

Artificial Intelligence and Machine Learning Applications in Water Resources Management

Message from the Guest Editor

Artificial Intelligence and Machine learning techniques are expected to be at the center of many fields of engineering and sciences in the next digital technology period. One of these fields is water resources, which has the widest application range and covers an area from watershed applications to groundwater and surface water resources management, to engineered systems applications such as water distribution systems and water treatment technologies, etc. At the center of all these fields are advances made in numerical, stochastic, artificial intelligence, and machine learning algorithms that are used in these systems. We recognize that the field of water resources is common to all the applications listed above. As such, the solution strategies and the problems encountered are also common. With this observation in mind, the aim of this Issue is to create a forum of exchange among diverse fields of water resources applications that develop and use these methods. Since the methodologies that are developed and used in one field may find applications in other fields of water resources, the purpose of this Issue is to provide an open repository of these algorithms at one source.

Guest Editor

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About the Journal

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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