Data Handling and Mining for Water Resources Planning and Management

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Message from the Guest Editors

As water-related data sets have grown in size and complexity, conventional statistical and inference data analysis has increasingly been augmented with automated data processing, employing machine learning techniques such as neural networks, cluster analysis, genetic algorithms, decision trees and decision rules, and support vector machines. Data mining is the process of applying these methods with the intention of uncovering hidden patterns in large data sets. This Special Issue will focus on the data handling and mining of water-related data sets, to extract and discover patterns and knowledge from large water data sets and transform knowledge into comprehensible information for further use. The issue will cover issues such as database and data management aspects, data pre-processing, model and inference considerations, complexity considerations, post-processing of discovered structures, visualisation, as well as application of computer decision support system, including artificial intelligence. […]

For further reading, please follow the link to the Special Issue Website at:

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Special Issue

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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.

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