Special Issue

Applications of Machine Learning in Hydraulic Engineering

Message from the Guest Editors

Machine learning, as a branch of artificial intelligence, seeks to solve a variety of problems, such as classification, regression, clustering, and pattern recognition, without the need for massive quantities of data, boundary conditions, and initial conditions. The advancement of artificial intelligence methods has resulted in machine learning becoming an increasingly powerful tool for solving hydraulic and hydrodynamic problems. However, in order to solve these types of problems in a laboratory or numerical way, it is of course necessary to construct laboratory or numerical models. The process of changing laboratory models to investigate new conditions involves considerable time and expense, especially when there is a large number of test cases to be examined. Thanks to machine learning, water engineering problems can be solved without the need for extensive laboratory studies and numerical modeling, which will result in time and cost savings. [...] For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/11KKJU17VP

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Deadline for manuscript submissions

closed (30 August 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/161930

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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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