

## Special Issue

# Machine Learning Applications in the Water Domain

### Message from the Guest Editor

Water is an indispensable resource for life, and its management and monitoring are crucial for sustainable development. The advent of Machine Learning (ML) has revolutionized the way we analyze and predict hydrological phenomena and water quality. This Special Issue aims to showcase the latest advancements in the application of ML in the field of water, particularly focusing on the prediction of hydrological processes and water quality, as well as the application of machine vision in water bodies. We invite researchers to submit their latest findings on the following topics:

- Applications of machine learning models in time series predictions of hydrology and water quality;
- Applications of and key issues in machine learning in water body identification and classification;
- Comparative analysis of different machine learning models;
- Research on the coupling of knowledge and data;
- Related research on the interpretability, performance evaluation, and other aspects of machine learning. [...]

For further reading:

[https://www.mdpi.com/journal/water/special\\_issues/248W1J7QLT](https://www.mdpi.com/journal/water/special_issues/248W1J7QLT)

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### Guest Editor

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### Deadline for manuscript submissions

20 December 2025



## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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