# Special Issue

# Advances in AI, Numerical, and Experimental Approaches for Water Resources Applications

## Message from the Guest Editors

Recent breakthroughs in remote sensing, artificial intelligence (AI), numerical modelling, and advanced experimental techniques are reshaping the investigation and management of surface– and subsurface–water systems. This Special Issue aims to collect high-quality contributions that couple hydraulics and hydrodynamics with digital and experimental innovations to tackle current and future water resource challenges.

**Keywords:**

- machine learning
- numerical modelling
- remote sensing
- experimental hydraulics
- nature-based solutions
- coastal risk mitigation
- water distribution systems
- climate change adaptation
- hydrology
- water resource applications

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## Deadline for manuscript submissions

26 January 2026

# 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**

Dr. Jean-Luc PROBST
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