

Special Issue

Environmental Hydraulics of Open Channel Flows: Advanced Modelling and Artificial Intelligence Techniques

Message from the Guest Editors

This Special Issue focuses on integrating environmental hydraulics with AI-based techniques for the detection, prediction, and mitigation of water quality hazards in open channels.

Topics of interest include real-time control of canal and river networks for pollution mitigation, eco-hydraulic control strategies, coupled hydraulic–water quality models, and AI-based decision-support systems for smart and resilient water infrastructures. By linking hydraulics, environmental processes, and intelligent control, this Special Issue aims to advance sustainable and climate-resilient open-channel water systems.

Guest Editors

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

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