Special Issue

Modelling and Numerical Simulation of Hydraulics and River Dynamics

Message from the Guest Editors

River engineering is an important subject in hydraulic engineering, and hydrology, hydraulics, and geomorphology are the main scientific disciplines required to understand its basic principles. Precise streamflow prediction using hydrological and numerical models can benefit hydrological operations such as water resource project operation, effective programming for flood monitoring, and reservoir operation schedules. Sediment dynamics presents one of the most challenging issues in the study and interpretation of soil erosion, streambed deposition, and streambed erosion. A reduction in flow area caused by suspended sediments affects the movement of aquatic life, ultimately changing the course of rivers. It is therefore crucial for various authorities to have data on suspended sediments and their variation. Furthermore, sediment transport strongly affects the geomorphology of riverbeds. [...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/9Q3EWD11X3

Guest Editors

Dr. Zohreh Sheikh Khozani
Department of Civil Engineering, Institute of Structural Mechanics, Bauhaus Universität Weimar, Weimar, Germany

Dr. Wan Hanna Melini Wan Mohtar
Civil Engineering Department, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Bangi 43600, Malaysia

Deadline for manuscript submissions

closed (20 December 2023)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/152477

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

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
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI