water

an Open Access Journal by MDPI

IMPACT FACTOR 3.4

CITESCORE 5.5

Numerical Modeling on Hydraulic Structures Flow Associated with Urban and Environmental Engineering

Guest Editors:

Prof. Dr. Rita F. Carvalho
Marine and Environmental Sciences Center, University of Coimbra, Coimbra, Portugal

Prof. Dr. Corrado Gisonni
Hydraulic Engineering, Department of Engineering, Università della Campania, Aversa, Italy

Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

This Special Issue will focus on effective contributions with theoretical bases and numerical modeling, in addition to Computational Fluid Dynamics (CFD), for the study of flows in accomplishing the aims of urban and environmental hydraulic engineering, aiming to understand the flow features, and the modeling and improved predicting of general performance of existing/conceptual structures, including quantity and quality aspects. More Details

It welcomes papers on topics such as (but not limited to) the following:

- Modelling flows associated with stuctures, such as water intakes, hydraulic circuits, weirs, spillways, outlets, transitions, reservoirs and retention basins, water treatment and hydraulic dissipation units;
- Optimization of specific projects such as studies of the structures geometry or appurtenances to achieve improved hydraulic structures, increasing their efficiency, economy and safety;
- Different numerical approaches for the analysis and characterization of flows, considering the complexity of some flows requiring high computation demands and the availability of computing nowadays.

water

IMPACT FACTOR 3.4

CITESCORE 5.5

an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST
Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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.

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 (*Water Science and Technology*)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
𝕏@Water_MDPI