Special Issue

Hydrology and Hydrodynamics Characteristics in Coastal Area

Message from the Guest Editors

Coastal zones present unique challenges such as strong tides, complex bathymetry, sediment transport, and human interventions that demand both innovative theoretical approaches and robust practical solutions. We welcome contributions that advance our understanding of hydrodynamic and hydrologic phenomena, improve predictive modeling, and develop novel experimental techniques. We welcome original research and review papers addressing, but not limited to, the following topics:

- New methods and models for the numerical simulation of hydrodynamics in coastal and estuarine systems;
- New methods and models for the numerical simulation of hydrology, particularly in coastal catchments and lowland watersheds;
- Innovative experimental methods and instrumentation for investigating hydrodynamic processes in coastal zones;
- Studies on cavitation, vortex dynamics, and multiphase flows in hydraulic machinery relevant to coastal or estuarine applications;
- Exploration and modeling of hydropower, tidal energy, and ocean energy systems, with emphasis on their interaction with coastal hydrodynamics. [...]

For further reading:
https://www.mdpi.com/journal/water/special_issues/2V345ZX6C9

Guest Editors

Dr. Nizar Abcha
Normandy University, UNICAEN, CNRS, UMR 6143 UNIROUEN, M2C, 14000 Caen, France

Dr. Nicolas Lecoq
Normandy University, UNIROUEN, UNICAEN, CNRS, UMR 6143 M2C, 76000 Rouen, France

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

mdpi.com/journal/water

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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
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

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