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Computational Fluid Mechanics and Hydraulics

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

Rapid advances in computational power in recent years have provided us with the opportunity to solve the challenging problems in many science and engineering fields. Fluid mechanics and hydraulics are no exception. This special issue of *Water* focuses on computational aspects of hydraulics and fluid mechanics researches. It aims to present and discuss the latest advancements in the numerical techniques and their application for simulation of environmental fluid mechanics and hydraulics problems. It encourages the original scientific contributions to:

- development, enhancement (of efficiency and accuracy) and validation of the conventional numerical methods, such as finite difference method (FDM), finite volume method (FVM), and finite element method (FEM), as well as the younger generations of numerical methods, such as smoothed particle hydrodynamics (SPH), moving particle semi-implicit (MPS), Lattice Boltzmann (LBM) methods, [...]

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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.

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