



water



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Advances in Hydraulics and Hydroinformatics

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Message from the Guest Editors

Dear Colleagues,

Great progress has been made in research on hydraulics and hydroinformatics over the past few decades, which include theoretical, experimental and numerical studies, generating new understanding and knowledge. This undoubtedly accelerates the applications of research outcomes in solving challenging problems for optimizing design and improving relevant management of flow problems in engineering. For example, new formulations in the treatment of bed friction in the shallow water model for overland flow due to rainfall, and coupled 1D–2D hydrodynamic inundation model for sewer overflow may shed light on the forecast and mitigation of flooding under climate change. In order to meet the requirements of speedy knowledge transfer to resolving engineering problems, this Special Issue aims to report the on-going research in hydraulics and hydroinformatics as well as their novel applications in practical engineering. All original contributions in the following areas will be considered for publication. This includes new research on hydraulics and hydroinformatics and their latest applications without being limited to the following listed topics, e.g., urban floods, sediment transport dynamics, environmental hydraulics, subsurface flows, hydropower station hydraulics, ecological hydraulics, ice hydraulics, numerical simulation of hydraulics, multiphysics and multiscale methods, new numerical schemes, high-performance computing, remote sensing, geography information systems, global positioning systems.



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Special *Issue*



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Message from the Editorial Board

The relevance of water in human development and sustaining life fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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