

Special Issue

Urban Flood Model Developments and Flood Forecasting

Message from the Guest Editors

Flood poses a severe threat to urban critical infrastructure. Flood forecasting can contribute to disaster risk reduction as it is an important and integral part of flood management strategies. However, there are significant technical challenges associated with providing timely flood warning with enough lead time, and the accurate representation of the numerous complex physical and hydrodynamic processes involved in urban flooding is also still a challenge. The aim of this Special Issue is thus to publish the latest advances and developments concerning the modeling and forecasting of flooding in urban areas and contribute to our scientific understanding and offer improved techniques to reduce flood risk. It is anticipated that this issue will contain contributions on novel methodologies including (but not limited to) flood forecasting methods, data handling techniques, experimental research in urban drainage, and/or sustainable drainage systems and novel numerical approaches.

Guest Editors

Prof. Dr. Jorge Leandro

Hydromechanik and Hydraulic Engineering, University of Siegen, Siegen, Germany

Dr. Mingfu Guan

Department of Civil Engineering, Faculty of Engineering, The University of Hong Kong, Hong Kong, China

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

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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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