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Urban and River Flooding: Theory, Experimental and Numerical Models, and Applications in Hydraulic Engineering

Guest Editors:

Dr. Matteo Rubinato

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Dr. James Hart

Dr. Laurent Courty

Deadline for manuscript submissions:
closed (26 September 2022)

Message from the Guest Editors

The frequency and magnitude of pluvial and fluvial flood events is projected to rise worldwide, causing substantial associated economic and public health costs. To tackle this global issue, numerical models have been developed to predict the interactions within the variables in place (e.g., flow rates, rainfall intentisites, geographical location, and local characteristics) to identify the areas that could be most at risk of flooding. Despite the recent progress related to the development of new large-scale models, which enables analyzing and simulating different processes in controlled environments under close-to-reality conditions, and despite the parallel evolution of more accurate novel measurement techniques, such as imaging techniques or the application of low-cost technologies, such models are inherently difficult to verify because of the paucity of data essential for calibration and validation purposes. […]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/urban_and_river_flooding

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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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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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