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

Guest Editors:

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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 intensities, 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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Special Issue



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Message from the Editor-in-Chief

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