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Innovative, Smart and Sustainable Solutions for Urban Stormwater Management

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Deadline for manuscript submissions:
closed (16 November 2020)

Message from the Guest Editors

Nowadays, urban flooding risk, the deterioration of water quality, air pollution, and urban heat islands can be considered as relevant effects of the urbanization process and climate change. Specifically, from a hydraulic point of view, sewer flooding and combined sewer overflows (CSOs) represent potential risks to human life, economic assets, and the environment.

Since traditional urban drainage techniques are unable to meet these emerging challenges, a transition toward a sustainable, smart, and resilient urban water management is required. New techniques such as real-time control (RTC) of the urban drainage network and low impact development (LID) systems (green roof, permeable pavements, green wall, rain garden, rainwater harvesting, etc.) provide several benefits at multiple scales, representing valid and cost-effective solutions.

This Special Issue aims to publish studies, review articles, and original papers presenting innovative, smart, and/or nature-based solutions; advanced hydrodinamic modelling; and methods that meet new challenges in stormwater management and urban surface runoff.

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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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