

Special Issue

Innovative, Smart and Sustainable Solutions for Urban Stormwater Management

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 hydrodynamic modelling; and methods that meet new challenges in stormwater management and urban surface runoff.

Guest Editors

Prof. Patrizia Piro

Department of Civil Engineering, University of Calabria, 87036 Rende, Italy

Prof. Dr. Mario Maiolo

Department of Environmental Engineering, University of Calabria, 87036 Rende, Italy

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

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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.

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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