Special Issue

Advances in Modeling and Management of Urban Water Networks

Message from the Guest Editors

In recent years, the modelling of urban water networks has experienced a boost for coping with the new challenges coming from modern society. Both water distribution and urban drainage systems are experiencing new trends for improved management. The challenges include, among others, the analysis of the behaviour of water distribution systems under "non-standard" operating conditions, as well as the improvement of network performances through the introduction of smart system solutions. With regard to urban drainage systems, new approaches and methods have been developed to model sustainable solutions for runoff control and peak flow mitigation. The aim of this Special Issue is to provide an overview of the recent trends in hydraulic modelling of urban water networks. Topics will concern new findings and developments in the modelling and management of urban water networks, including intermittent water supply, real time control for pressure and leakage management in water distribution networks, sustainable solutions and green/blue infrastructures for urban drainage systems, flood control, and flood risk assessment especially in urban areas.

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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

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