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Integrated Modelling of Urban Waterway Systems

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Deadline for manuscript submissions:
closed (31 October 2022)

Message from the Guest Editors

Urban waterway systems for water supply or for storm and wastewater drainage critically affect the water cycle. Their impact on water quantity (e.g., flooding) and quality (e.g., waterbody contamination) is expected to increase in the coming decades, intertwined with the effects of climate change, also in light of a worldwide increasing trend of urban population. We invite contributions presenting novel research or comprehensive reviews on the integrated modelling of urban waterway systems. The themes of interest include but are not limited to:

- Integrated modelling of urban hydrologic/hydraulic processes;
- Integrated modelling of water supply and storm and wastewater drainage;
- Combined sewer overflows;
- Urban river flooding;
- Hydraulic control structures;
- Urban waterway systems operation and management;
- Urban river water quality;
- Sediment transport in urban waterway systems;
- Urban river restoration;
- Design/modification/restoration of urban waterway systems;
- Uncertainty in urban hydrologic and hydraulic modeling;
- Impact of human activities/land use, climate change/sea level rise on urban waterway systems.

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Special Issue

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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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