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Urban Flood Modelling and Risk Management

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Deadline for manuscript submissions:
15 July 2024

Message from the Guest Editors

Urban flood and its risks have been changing in pattern, mechanism, and intensity due to the interaction of warming climate, rapid urbanization, and mitigation measures. Understanding these changes in urban flood risk relies on observation and modelling, which present challenges in urban areas where the mixture of natural and artificial landscapes is highly heterogenous over space. Recent developments on data acquisition and machine learning technique provide more physical-based, simplified, and data-driven opportunities on improving urban flood modelling, and further enhance urban resilience to flood.

We welcome submissions that contribute, but are not limited to, the following topics:

1. Urban flood mechanisms;
2. Urban flood risk assessment;
3. Data-driven flood modelling;
4. Social sensing on urban flood;
5. Urban flood in underground spaces;
6. Urban flood resilience;
7. Urban drainage design;
8. Low impact development and sponge city.

This Special Issue particularly encourages papers that integrate machine learning with a hydrodynamic model.

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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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