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Urbanization under a Changing Climate – Impacts on Urban Hydrology

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Deadline for manuscript submissions:
closed (20 March 2020)

Message from the Guest Editors

This Special Issue will cover a wide range of topics from fundamental urban hydrology to measures for enhancing urban water management under urbanization and climate change:

- Rainfall measurement, modeling, and forecasting at a finer resolution in both time and space for variability/change assessment and urban hydrological modeling;
- Impacts of urbanization and climate change on hydrologic components including evapotranspiration, surface runoff and subsurface flow;
- Impacts of urbanization and climate change on receiving water bodies with a focus on degradation in water quality and ecosystems;
- Hydrological modeling and forecasting, particularly taking into account the impacts of both urbanization and climate change;
- Approaches to managing urban stormwater using infiltration-based and retention-based techniques and stormwater reuse;
- Assessment of uncertainty from various sources in hydrological modeling/analysis, especially in a changing climate;
- Urban water infrastructure design (e.g., stormwater drainage system) in a changing climate and/or urbanization;
- Non-stationary hydrology.

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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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