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Urban Water Cycle Modelling and Management

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Deadline for manuscript submissions:

closed (30 September 2017)

Message from the Guest Editors

Many major cities of the world face challenges arising from growing and urbanizing populations, a changing climate, and an increase in the frequency of extreme weather events. Existing centralized water services, operating at, or close to, full capacity, are not sufficient to cope with the associated increase in water demand. Replacing the entire centralized infrastructure is very difficult within the existing environmental and economic constraints. Water services can be provided through the integration of decentralized and centralized systems, referring to as hybrid water supply systems.

The premise of hybrid water supply systems is that the provision of alternative water sources at local scales can extend the capacity of existing centralized water supply infrastructure. However, it is important to recognize the challenges associated with diversification of water source portfolios. Undertaking the diversification of water sources implies a detailed understanding and capacity to analyze the performance of the entire water cycle. This Special Issue invites papers that deal with comprehensive modelling of urban water cycle and its management as a dynamic system.



mdpi.com/si/9278

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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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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