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Urban Rainfall Analysis and Flood Management

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Deadline for manuscript submissions:
30 May 2019

Message from the Guest Editors

Dear Colleagues,

Economic and demographic growth is placing increasing pressure on urban catchments with the extension of impervious areas and the concentration of population and economic activities. All these factors increase the risk and the potential damage connected to urban flooding and may amplify the effects of climate change. In the last decades, such topics have been largely discussed in the scientific community, with related efforts in the identification and estimation of potential future climatic trends. In urban areas, such studies have to be linked with the investigation of urbanization trends, the definition of more detailed numerical models able to simulate the complexity of flooding propagation in urban areas, the estimation of expected damage and its connection with flooding characteristics such water depth, velocity and energy.

This Special Issue focuses on presentations and discussion of recent studies, new methods, original papers and review articles that describe the current state of the art on the challenges related to urban rainfall analysis and flood management.

Potential topics include but are not limited to the following:

Urban rainfall analysis and monitoring: [...]

Urban floods modelling: [...]

Data uncertainty: [...]

Flooding management strategies: [...]

For further reading, please follow the link to the Special Issue Website at:
http://www.mdpi.com/journal/water/special_issues/Rainfall_Flood_Management

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Editor-in-Chief

Prof. Dr. Arjen Y. Hoekstra
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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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CiteScore 2017 (Scopus): **2.29**, which equals rank 37/191 (Q1) in the category 'Water Science and Technology' and 43/199 (Q1) in 'Aquatic Science'.

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