

Hydrological Processes in Urban Environments

Guest Editors:

Dr. Tsung-Yu Lee

tylee@ntnu.edu.tw

Dr. Chia-Jeng Chen

cjchen@nchu.edu.tw

Dr. Yin-Phan Tsang

tsangy@hawaii.edu

Dr. Shao-Yiu Hsu

syhsu@ntu.edu.tw

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Message from the Guest Editors

Present and future challenges posed by climate change and the growth of the number of people living in urban areas lead to the need to find new ways to manage the development of cities, in order to mitigate not only floods, but also threats such as water supply security, pollution, etc.

This Special Issue has two objectives: improving the knowledge of hydrological processes in urbanized areas and contributing to the development of new methods, strategies and technologies for the management of urban waters.

Urban catchments are characterized by a flashier nature of the hydrological response compared to natural catchments. In addition, the heterogeneity of land uses and underground characteristics influences the processes in the water cycle. Smart cities using water in smart ways will influence the water cycle as well. Moreover, water quality issues also have crucial importance. Nature-based solutions are applied to remove pollutants. All of these interactions between water processes and the various elements of urban catchments constitute many research directions, which deserve to be studied in a more in-depth manner.





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Editor-in-Chief

Prof. Dr. Christine Fürst

Institute for Geosciences and
Geography, Dept. Sustainable
Landscape Development,
University of Halle, Von-
Seckendorff-Platz 4, 06120 Halle
(Saale), Germany

Message from the Editor-in-Chief

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Contact Us

Land
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
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