Special Issue

Urban Flood Mitigation and Stormwater Management

Message from the Guest Editor

To manage the flood hazard and design adequate mitigation strategies, it is necessary to better understand the rain–urban system at different levels: the precipitation dynamics at high space–time resolution; the runoff generation processes on several different types of surfaces that create complex, often unpredictable, preferential flow paths; the drainage and disposal of stormwater, and its harmful impact on the quality of the receiving water bodies. This Special Issue seeks contributions that face these issues by proposing innovative measurement techniques, including remote sensing, or novel physical or statistical modeling tools to represent the precipitation field or the runoff/drainage system. They can support, through methodological or data-driven applications, the design and testing of new mitigation actions, or demonstrate the reliability of existing measures to reduce damages and pollution. This Special Issue welcomes original papers, review articles, case studies, and planning experiences that address one or more of the mentioned challenges, and that foster the reproducibility of best practices and knowledge transfer to other sites or at different scales.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems. The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

Editor-in-Chief

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