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Urban Flood Mitigation and Stormwater Management

Guest Editor:

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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.