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Assessment and Management of Flood Risk in Urban Areas

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Message from the Guest Editor

It is important to bear in mind that a flood in a modern economy can be expected to bring about a whole gamut of consequences. The costs of damage caused by extreme weather events, among which floods are a major category, have exhibited a rapid upward trend, both globally and in Europe. Reasonable approaches to flood risk assessment are indispensable. The scope and extremity of flood episodes point to the need to develop a comprehensive proposal for the eventual completion of flood protection measures in potentially flooded areas. The aim of flood risk management is to implement proposed flood protection measures. In Europe, the main objectives of management as well as the entire management cycle are regulated by the Directive of the European Parliament and Council 2007/60/EC on the assessment and management of flood risks. The aim of this directive is to reduce the adverse consequences for human health, the environment, cultural heritage, and economic activity associated with floods. This Special Issue summarizes the latest knowledge on the methods and tools of flood risk assessment and management worldwide, mainly in urban areas.



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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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