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Extreme Hydrological Events and Water Resources Management under Climate Change

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Message from the Guest Editors

Dear Colleagues,

Over the last decades, we have experienced severe and disastrous consequences of opposite hydrological extremes: floods and landslides that have caused the loss of many lives, enormous damage to properties and infrastructure, and huge personal and societal costs, as well as droughts that have caused extensive damage to crops and endangered food production and the safety of water supply. How can these events be placed in a historical context, how are they related to already-experienced changes in the climate, and what can we expect within climate change scenarios in the coming decades? Do we have the tools and methods to understand the cause, predict the consequences, and, importantly, communicate these? How have we traditionally mitigated such consequences and how can new technologies be applied to mitigate and reduce the effects of extreme hydrological events in the future? Over the decades, population size and urbanization have increased significantly, and these consequences have become more severe.

[...]

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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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