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Hydrological Prediction and Flooding Risk Assessment

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Message from the Guest Editors

Reliable hydrological prediction and flooding risk assessment are of great importance to develop corresponding resilience strategies. However, a great number of challenges need to be carefully considered, such as the extensive uncertainties embedded in various hydroclimatic processes, changing climate, and intensified socio-economic activities. Such complexities force researchers to develop more robust mathematical methods and tools to analyze the relevant information, simulate the related processes, assess the potential impacts/risks, and generate sound decision alternatives for flood resilience.

This Special Issue aims to explore new techniques to aid decision makers in generating reliable flood predictions and risk inferences. What are new techniques in revealing complexities in hydroclimatic processes? How do we generate sound flood resilience strategies under the consideration of climate change and socio-economic development? Are there appropriate approaches to reflect extensive uncertainties in the process of hydrologic modelling and flood risk assessment? Additionally, case studies from a variety of hydrologic prediction and flood risk assessment issues are welcome.

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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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