Special Issue

Advances in Modeling and Risk Analysis of Floods under Changing Climate

Message from the Guest Editor

In recent years, we have witnessed an alarming increase in the likelihood and intensity of heavy rainfall, causing severe flooding around the globe. For example, this year alone, the widespread record-breaking rainfall and flood events in the US, Europe, and Asia caused the worst fatalities on record. At least 219 people from Belgium and Germany, 192 from India, and 22 people from Tennessee in the US lost their lives from single flood events. The frequency and severity of such events are expected to continue to increase in the future as the climate warms and more areas are urbanized. In order to tackle this emerging global issue, it is essential to accurately predict the level, spatial extent, and potential impacts of severe floods on communities. This Special Issue aims to highlight the recent progress and help define the future directions of flood modeling. Potential topics include but are not limited to the following:

- Improved characterization of nonstationary storm and flood events considering the future climate.[...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/floods

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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.

Editor-in-Chief

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