Special Issue

Risks of Hydrometeorological Extremes

Message from the Guest Editors

Hydrometeorological extremes, such as floods, droughts, and intense precipitation events, represent some of the most challenging and destructive natural phenomena to impact societies globally. This Special Issue seeks to highlight the complex relationships between atmospheric conditions that trigger hydrometeorological extremes and terrestrial impacts. Topics of interest include, but are not limited to, the following: 1. The characterization and prediction of hydrometeorological events and their impacts on agriculture, ecosystems, and human systems;
2. Drivers of hydrometeorological extreme events;
3. Socio-economic dimensions of these hazards, including vulnerability assessments, resilience-building measures, and policy implications;
4. Effects of climate change on the frequency and intensity of hydrometeorological extremes, as well as studies highlighting successful community and ecosystem responses;
5. Improving climate and hydrological models to enable better representation of hydrometeorological extremes;
6. Advanced modelling and simulation techniques to explain these hydrometeorological extreme events and novel frameworks for risk assessment.

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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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