Special Issue

Flood Monitoring, Forecasting and Risk Assessment

Message from the Guest Editors

In recent decades, there has been an increase in the frequency and intensity of flood events across the world. Changes in rainfall patterns driven by underlying climate trends have resulted in a catastrophic loss of human life and economic losses due to floods. The complex interactions between different flood types and the urban landscape require fit-for-purpose management strategies to effectively address the challenges that will affect many countries in the coming years. Monitoring programmes that support accurate input data for forecasting and risk assessment are key to developing and informing such management decisions. This Special Issue focuses on all aspects of flood monitoring, forecasting and risk assessment. Of particular interest are papers focusing on transferable approaches that can be used at different spatio-temporal scales. This Special Issue aims to cover a full range of challenges within the field, including ensemble probability weather forecasting, river flow verification, climate change driven flood scenarios, and novel monitoring techniques, as well as data science-driven solutions such as digital twins.

Guest Editors

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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

Dr. Jean-Luc PROBST
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