

Special Issue

Recent Advances and New Directions in Flood Forecasting, Modeling, and Mapping

Message from the Guest Editor

With the increasing frequency of high magnitude floods around the globe, there is a greater need to provide accurate information on the potential impacts of such floods in the future. The primary goal of this Special Issue is to take stock of all these new developments for charting the next phase of flood modeling research, by using the newly available technology, data, and cyber-physical systems. Topics that may be relevant to this Special Issue, but are not limited to, include:

- Theories and strategies for hyper-resolution urban flood modeling and mapping;
- Issues related to the mapping of flood inundation from extreme events such as typhoons and hurricanes;
- Application of artificial intelligence, big data, and cyberinfrastructure for flood modeling and research;
- Data driven approaches for flood forecasting, modeling, and mapping;
- Novel methods for incorporating crowdsourcing or citizen science for improving flood research;
- Strategies for improving flood modeling and mapping for data sparse regions.

Guest Editor

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Deadline for manuscript submissions

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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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