



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

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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.





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Message from the Editor-in-Chief

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