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Advances in Real-Time Flood Forecasting

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Deadline for manuscript submissions:
closed (20 December 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to collect papers on current efforts to simulate real-time flood forecasting in watersheds of varying scales and environments with urban characteristics. The following list provides an overview of the topics we are looking for, but is not exhaustive.

- Techniques to improve model accuracy and quantify model uncertainties, such as data assimilation, model calibration, and optimization.
- Data-driven methods to increase model efficiency while preserving model accuracy, such as deep learning and surrogate modeling.
- Reduced modeling techniques to reduce dimensionalities at larger spatial and finer temporal scales.
- Remote sensing techniques relevant to enriching the availability of model inputs and outputs.
- Application of real-time flood forecasting with a particular interest in developing countries and data-poor regions.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special_issues/real_time_flood

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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.

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