

## Special Issue

# Advances in Flash Flood Forecasting

### Message from the Guest Editor

Flash flooding remains one of the most deadly and costly natural hazards for urban, highly populated cities and regions around the world. Although challenges remain in enhancing the timing, accuracy, and reliability of flash flood forecasts, significant advances have been achieved over the last decade. This Special Issue will welcome innovative contributions on the following major topics related to flash flood forecasting: 1) The understanding, modeling, and prediction of key drivers of flash floods, such as extreme meteorological events, snowmelt, ice jam, and dam or levee failure. 2) Methodologies for taking advantage of (i) emerging real-time or near-real-time products from mesoscale numerical models, radars, satellites, and in situ sensor networks, (ii) data fusion products, (iii) quantitative precipitation estimations, and (iv) land surface products, flood inundation maps, and LiDAR data. 3) Integrated modeling systems including hydrologic–hydraulic models, artificial intelligence-based forecasting systems, and new hybrid forecasting systems including sequential data assimilation, Bayesian processors, and information theory.

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### Guest Editor

Prof. Dr. Paulin Coulibaly

Department of Civil Engineering, McMaster University, Hamilton, ON L8S 4L7, Canada

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### Deadline for manuscript submissions

closed (30 November 2020)



## Water

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*Water*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[water@mdpi.com](mailto:water@mdpi.com)

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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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### Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR  
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Toulouse, France

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