

Special Issue

Advances in Streamflow and Flood Forecasting

Message from the Guest Editors

Rivers and streams experience flooding as a natural result of large rainstorms or spring snowmelt that may result in inundation or flooding disasters. Flooding is considered one of the biggest weather-related killers in the world. Precipitation intensity has increased worldwide with global climate change, but this effect on streamflow and flood magnitude is difficult to pinpoint. Therefore, more accurate streamflow and flood forecasting methods are essential for hydrologists. This Special Issue focuses on advanced approaches including the traditional approach of statistical and stochastic time-series modeling with their recent developments, stand-alone data-driven methods such as artificial intelligence (machine learning/ deep learning), and modern hybrid approaches where data-driven models are combined with preprocessing methods (or physically based hydrologic models) to improve the accuracy of streamflow and flood forecasting.

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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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