



water

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## Rainfall-Runoff and Extreme Event Modelling. Novel Database Systems

Guest Editors:

**Prof. Dr. Maria Manuela Portela**

**Dr. José Pedro Gamito de Saldanha Calado Matos**

**Prof. Dr. Martina Zeleňáková**

**Dr. Luis Angel Espinosa**

Deadline for manuscript submissions:  
**closed (16 October 2023)**

### Message from the Guest Editors

Dear Colleagues,

Understanding the rainfall-runoff processes and modelling extreme hydrological events, such as heatwaves, droughts, snowstorms, and excessive rainfall, are essential contributions for preventing and controlling the expected impacts of climate change and their consequences on natural and societal systems.

This [Special Issue](#) is focused on, but not limited to, physically or conceptually based rainfall-runoff and extreme event modelling with both established and cutting-edge data sources (e.g., downscaling satellite and reanalysis climatological products). However, original contributions that use data from ground-based sensors are also accepted. Along with observational studies, data analyses, and numerical simulations, this Special Issue also invites research on novel algorithms, for instance, aiming at exploring, validating and calibrating new data sources.

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*Guest Editors*



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# Special Issue



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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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