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Hydroinformatic Tools and Spatial Analysis in Water Resources and Water Extreme Events Study

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Deadline for manuscript submissions:
closed (25 July 2023)

Message from the Guest Editors

The information on the timing and magnitude of floods/water shortage are required in many practical applications of water resources engineering for local, seasonal and regional frequency analyses required in engineering design, reservoir management, and operation of water infrastructure.

The special issue is focusing on the assessment of various hydroinformatic tools and associated case studies useful for establishing trends of the intensity of annual extreme hydrological flow process but also to different hydrological parameters in basins ranging from medium to large scale. The evaluation of the impact of climate change and human-induced environmental changes on water resources in the watershed is also envisaged looking for studies using long-term hydro-meteorological time series. Furthermore, the evaluation of the performance of models and trend detection algorithms is welcomed. Nevertheless, the application of the hydroinformatic tools in planning water resources strategies and policies fits within the scope of the SI.

For more details, please see:
https://www.mdpi.com/journal/water/special_issues/Hydroinformatic_Water_Extreme

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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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