

Special Issue

Hydrological Hazards: Modelling, Monitoring, Management and Mitigation Measures

Message from the Guest Editors

Hydrological hazards are intensifying globally due to climate change and increasing anthropogenic pressures, posing significant risks to communities, infrastructure, and natural systems. This Special Issue aims to advance scientific understanding and practical solutions for hydrological hazards in a rapidly changing climate. We invite contributions that showcase advancements in monitoring, modelling, prediction, and risk assessment, as well as research supporting effective mitigation, climate adaptation, and management. We welcome submissions focusing on spatial dimensions and technical innovations across the hazard management continuum. Key themes include

- Modelling and Forecasting: Advanced hydrological and hydrodynamic simulations, integration of machine learning, and improved prediction systems.
- Monitoring and Data Analytics: Applications of remote sensing and GIS for real-time monitoring, vulnerability mapping, and spatiotemporal analysis of hazard drivers.
- Management and Mitigation: Development of effective Early Warning Systems (EWS), resilient infrastructure design, and the implementation of Nature-Based Solutions (NBS) for risk reduction.

Guest Editors

Dr. Lampros Vasiliades
Dr. Andreas Efstratiadis
Dr. Ioannis Tsoukalas

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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