



*water*

an Open Access Journal by MDPI



## Intelligent Modelling for Hydrology and Water Resources

Guest Editors:

**Prof. Dr. Wenchuan Wang**

College of Water Resources,  
North China University of Water  
Resources and Electric Power,  
Zhengzhou 450045, China

**Prof. Dr. Zhongkai Feng**

College of Hydrology and Water  
Resources, Hohai University,  
Nanjing 210098, China

**Dr. Mingwei Ma**

North China University of Water  
Resources and Electric Power,  
Zhengzhou 450045, China

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

With the rapid development of information technologies, machine learning methods and artificial intelligence technologies are providing new possibilities for solving various engineering problems. Against this background, many scientists and engineers are working to develop novel methods that can help create reasonable scheduling schemes and policies for hydrology and water resources problems in the changing environment. In this Special Issue, high-quality research papers concerning the following themes are invited, but not limited to:

- Watershed hydrological model;
- Hydrological process modeling;
- Flood warning and risk analysis;
- Hydrological forecasting and simulation;
- Extreme hydrological and climate events;
- Impact of climate changes on hydrological process;
- Smart water resources management and planning;
- Optimal reservoir(s) operation;
- Extreme hydro-meteorological events;
- Dynamical mechanisms associated with hydro-meteorological processes;
- New approaches/methods/models for hydrology and water resources;
- Relevant case studies and applications.



[mdpi.com/si/153030](https://mdpi.com/si/153030)

# Special Issue



*water*



an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Jean-Luc PROBST

Laboratory of Functional Ecology  
and Environment, Centre  
National de la Recherche  
Scientifique (CNRS), University of  
Toulouse, Campus ENSAT,  
Auzeville Tolosane, France

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

## Contact Us

---

Water Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/water](http://mdpi.com/journal/water)  
[water@mdpi.com](mailto:water@mdpi.com)  
[X@Water\\_MDPI](https://twitter.com/Water_MDPI)