



*water*

an Open Access Journal by MDPI



## Prediction and Assessment of Hydrological Processes

Guest Editors:

**Dr. Rana Muhammad Adnan**

State Key Laboratory of  
Hydrology-Water Resources and  
Hydraulic Engineering, Hohai  
University, Nanjing 210098, China

**Prof. Dr. Ozgur Kisi**

Department of Civil Engineering,  
Faculty of Natural Sciences and  
Engineering Ilia State University,  
0162 Tbilisi, Georgia

**Dr. Mo Wang**

College of Architecture and  
Urban Planning, Guangzhou  
University, Guangzhou, China

Deadline for manuscript  
submissions:

**closed (30 April 2025)**

### Message from the Guest Editors

This Special Issue will feature the latest advances and developments in sustainable hydrological cycling.

The main themes of this Special Issue include, but are not limited to, the following:

1. The use of advanced computing methods for precise hydrological variable forecasting (modeling streamflow, floods, sediment, air temperature, evaporation, evapotranspiration, etc.);
2. The utilization of advanced machine learning and deep learning models with ensemble models for solving hydrological problems;
3. The spatial and temporal modeling of hydrological variables with the aid of advanced computing models;
4. The coupling of data preprocessing techniques with machine learning and deep learning methods to capture noise and nonlinear hydrological variables;
5. The use and development of novel optimization algorithms with machine learning methods to enhance their computing abilities.



[mdpi.com/si/205182](https://mdpi.com/si/205182)

# Special Issue



*water*



an Open Access Journal by MDPI

## 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

## 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 (Aquatic Science)

## Contact Us

Water Editorial Office  
MDPI, Grosspeteranlage 5  
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)