



*water*



an Open Access Journal by MDPI

## Machine-Learning-Based Water Quality Monitoring

Guest Editors:

### **Dr. Alexandru Predescu**

Computer Science and Engineering Department, Faculty of Automatic Control and Computers, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania

### **Prof. Dr. Mariana Mocanu**

Department of Computer Science, Faculty of Automatic Control and Computers, University Politehnica of Bucharest, Bucharest, Romania

### **Dr. Elena Simona Apostol**

Computer Science and Engineering Department, Faculty of Automatic Control and Computers, National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania

### **Message from the Guest Editors**

We are pleased to invite you to contribute original research based on machine learning techniques and their applications focused on our most vital resource—water. The primary goal is to provide a comprehensive overview of recent advancements, methodologies, and case studies related to the utilization of machine learning for monitoring and managing water quality, including, but not limited to, the following:

- Machine learning and deep learning solutions for smart water quality monitoring;
- The integration of machine learning within smart water infrastructure;
- Decision support and data-driven solutions for water quality management.

Deadline for manuscript submissions:

**closed (22 April 2024)**



[mdpi.com/si/187802](https://mdpi.com/si/187802)

# 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)