

Special Issue

Advanced Data Analytics for Water Quality and Public Health

Message from the Guest Editor

As concerns about waterborne diseases and emerging contaminants grow, understanding water quality dynamics becomes crucial for protecting public health. This Special Issue will focus on how advanced technologies can be applied to model, monitor and manage water quality. By integrating advancements in machine learning, artificial intelligence (AI), geographic information systems (GIS), and remote sensing, this Special Issue will highlight innovative approaches to tackling public health challenges posed by contaminants in water. The topics of this Special Issue include, but are not limited to, the following:

- Application of machine-learning algorithms for water quality prediction and monitoring.
- GIS-based spatial analysis and visualization of health risks from emerging contaminants.
- Remote-sensing approaches for large-scale water-quality monitoring.
- Integration of AI and mechanistic models for forecasting water-quality dynamics.
- Interdisciplinary and team science approaches for addressing emerging water-quality challenges.

Guest Editor

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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

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