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## Potential of Artificial Intelligence in Addressing Critical Challenges Related to Water Resources

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Deadline for manuscript submissions:

**30 September 2024**

### Message from the Guest Editors

This Special Issue aims to disseminate and discuss advances in AI technologies, promoting sophisticated solutions to enhance and ensure the quality of water treatment. We invite original and unpublished contributions in various application areas, including the following:

- Artificial intelligence for water quality surveillance and management.
- AI applications for the early detection of water pollution.
- Optimization of water treatment processes through artificial intelligence.
- Intelligent systems for sustainable water resource management.

We welcome contributions of unpublished research exploring various aspects of artificial intelligence for water treatment, such as the following:

- Modeling water treatment processes, including adsorption, photodegradation, oxidation, etc.
- Intelligent technologies for the real-time monitoring of water parameters.
- AI-based predictive modeling for water quality.
- Deep learning applications in the detection and elimination of contaminants.
- AI systems for optimizing water treatment processes.
- AI approaches for intelligent management of water networks.



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**Special Issue**



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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.

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

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