Special Issue

Application of Artificial Intelligence (AI) in Water Quality Monitoring

Message from the Guest Editor

By monitoring water quality, pollutants, bacteria, and other harmful substances in water bodies can be detected and identified early on, and it helps to take corresponding measures to protect public health and ecosystems. Water quality monitoring also helps to assess the sustainability of water resources and guide rational water resource management and decision making. The rapidly developing artificial intelligence technology in recent years possesses real-time monitoring capabilities, big data analysis and pattern recognition capabilities, intelligent decision-making capabilities, and data integration and joint analysis capabilities, which can overcome some of the challenges faced by traditional water quality monitoring methods, make up for the limitations of traditional methods, and have great application prospects in water quality monitoring. This Special Issue is interdisciplinary and encourages methodological pluralism. We welcome research-based manuscript submissions from scholars and practitioners working in water quality monitoring, information sciences, environmental sciences, ecology, and water policy studies.

Guest Editor

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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

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