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# Application of Digital Technologies in Water Distribution Systems

Guest Editors:

### Message from the Guest Editors

Prof. Dr. Doosun Kang

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Deadline for manuscript submissions: closed (10 January 2025) Dear Colleagues,

This Special Issue aims to highlight the transformative integration of digital and computational technologiesincluding, but not limited to, Artificial Intelligence, Machine Learning, Internet of Things, Blockchain, Digital Twins, SCADA systems, Cyber-Physical Systems, Big Data Analytics, and Cloud Computing-in fortifying water distribution systems against pressing global challenges such as aging infrastructure, climate change impacts, contamination, and escalating water demands. This aim, intrinsic to the Fourth Industrial Revolution (4IR) dynamics, aligns with the ambitions of the UN SDGs, particularly Goal 6 (Clean Water and Sanitation) and Goal 11 (Sustainable Cities and Communities), emphasizing the transformative advancements in refining the management, monitoring, and optimization strategies of water distributions systems to achieve sustainable water supply and management.

[...]

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/water/special\_issues/H2MVHU9N









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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 scientific domains and 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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