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Cyber-Physical Security for the Water Sector

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Message from the Guest Editors

The water sector is faced with multiple technical, organizational and external challenges hard to handle with traditional approaches and therefore calling for speeding up the process of digitalization. The technological advances could put the sector at higher risk, if the process of digitalization does not integrate security into solutions, with systematic management of risks covering both cyber and physical threats and their combination.

The aim of this Special Issue is to collect contributions addressing different aspects of protecting critical water infrastructure against deliberate and accidental threats. Topics of interest include, but are not limited to:

- AI, machine learning for predictive security of critical infrastructures
- Integrated (cyber & physical) security modelling and decision making
- Collaborative risk assessment/mitigation in supply chains
- Confronting complex threats and their cascading effects
- Adaptive anomaly detection
- Risk Assessment and Management, including threat assessment and foresight
- Identification, assessment, and mitigation of cyber-physical threats
- Automation for detection, prevention, and mitigation measures



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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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