Special Issue

Design of Cyber-Secure Water Plants

Message from the Guest Editors

Numerous water and wastewater treatment utilities produce water critical to the sustenance of our daily life. Such utilities that produce clean water, and the associated distribution networks, often use industrial control systems (ICSs). Such systems include, among other devices, PLCs, sensors, and communication networks to control the treatment plant and the distribution networks. Vulnerabilities in the ICS design, PLC software, communication network, and, most importantly, the existence of the human element, lead to the potential of successful cyberattacks. Such attacks could impact the operation of the water utilities in various ways, such as, for example, component damage, the production of water of unacceptable quality, and supply interruption. Novel methods are needed to defend water plants against such cyberattacks. This Special Issue invites rersearchers to submit original work aimed at protecting water utilities against cyberattacks.

Guest Editors

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Deadline for manuscript submissions

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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

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