Special Issue

Optimization and Control of Integrated Water Systems

Message from the Guest Editors

This Special Issue on the "Optimization and Control of Integrated Water Systems" will bring together methodologies for the optimization, supervision, and control of integrated water systems using advanced operational strategies. Topics include but are not limited to the following:

- Theoretical and practical advances in modeling, simulation, and control of integrated water systems
- Hybrid systems and mixed-logical dynamical modeling for control of IWS
- Decentralized and agent-based modeling of IWS
- Optimization of IWS and their components
- Environmental and economic distributed MPC control of IWS
- Multi-agent game-based distributed MPC of IWS
- Decentralized, cooperative, and coordinated distributed MPC control of IWS
- Networked systems and sectorization methodologies
- Weather forecasting disturbance inclusion in control algorithms applied to integrated water systems
- Learning Strategies for multi-agent systems
- Data-driven fault detection, diagnosis, and prognosis solutions for integrated water systems
- Life cycle assessment of integrated water systems
- Water–energy nexus
- Smart technology and IoT impact on integrated water system management

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Deadline for manuscript submissions

closed (10 November 2021)

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