

Special Issue

Monitoring, Modeling, and Automation of Water and Wastewater Processes

Message from the Guest Editors

A safe and reliable water supply and wastewater disposal during challenging future scenarios demand innovation in current engineering practices. Improved automation and control of processes can be achieved by modernising water monitoring and by adopting relevant digital solutions such as machine learning and modelling. However, the limited expertise in the industry in calibrating, maintaining, operating, modelling and integrating alternative sources of data has so far hindered a wider implementation of state-of-the-art research.

In this context, this Special Issue focuses on promoting recent practical advancements on using non-traditional sources of data (e.g., high-frequency and remote sensing) to achieve automation and/or optimisation of water/wastewater processes. We welcome submissions outlining: applications of digital twins in water and wastewater conveyance and treatment facilities; the enhancement of reliability, robustness and application of high-frequency (e.g., optical, acoustics) water sensors; and the development of relevant data-driven/hybrid predictive models (e.g., early warning systems, water and wastewater processes optimisation).

Guest Editors

Dr. Edoardo Bertone

Senior Lecturer, School of Engineering and Built Environment, Cities Research Institute & Australian Rivers Institute Griffith University, Gold Coast Campus, Gold Coast, QLD 4222, Australia

Dr. Benny Zuse Rousso

Research Fellow, School of Engineering, Deakin University, Waurn Ponds 3220, Australia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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