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Special Issue Reprint

Advances in Management and Optimization of Urban Water Networks

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This Reprint presents recent advances in the urban water networks' management and optimization, with contributions covering water distribution systems, urban drainage and sewer systems, and broader urban water management challenges. The collected studies address different stages of the infrastructure lifecycle, including network design, pipe sizing, operational optimization, leak detection, predictive maintenance, hydraulic model calibration, flow forecasting, anomaly detection, and governance-related issues. By bringing together methodological developments and practical applications, this Reprint highlights how modelling, optimization, data-driven approaches, and decision-support tools can contribute to more efficient, resilient, and sustainable urban water infrastructure.

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