

## Special Issue

# Optimized Water Distribution Networks and Sustainable Water Management

### Message from the Guest Editors

In recent years water has become a more scarce resource due to higher demand, the increased pollution of sources, and climate change; and intermittent supply conditions are more frequent. It can harm Water distribution networks (WDNs) in several ways, reducing their life cycles, increasing operation and maintenance costs, and contaminating the treated water. Optimizing WDNs' operation conditions can significantly improve water management directly; however, defining optimal operation in WDNs is not easy. In this scenario, we are pleased to invite you to contribute to the development and innovation of hydraulic models, mathematical algorithms, and data acquisition systems applied in WDNs improvement. Original research articles and reviews on the following research areas (but not limited to) are welcome: Optimal WDNs' design and management; Water demand forecasting; Intermittent water supply; Leakage detection and location; Skeletonization and metamodels for hydraulic simulations; Maintenance tools and rehabilitation strategies for WDNs; Optimal operation of pumps and valves; Low-cost sensors for smart water; IoT applied for WDNs; Energy recovery strategies.

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### Guest Editors

Dr. Gustavo Meirelles Lima  
Dr. Bruno Melo Brentan  
Dr. Edevar Luvizotto Jr.

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### Deadline for manuscript submissions

closed (24 January 2024)



## Sustainability

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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