

Special Issue

Innovative Approaches in the Optimization of Water Distribution Networks

Message from the Guest Editors

The use of optimization approaches to deal with water distribution systems (WDS) planning and management problems has a long history. However, the multiple challenges presented by such complex problems in modern societies, where there are great expectations about the performance of WDS in a context characterized by new drivers of change, opens up many novel avenues for research in this field. Optimization approaches are perceived today as essential in helping decision makers to be better informed. They provide guidance for the efficient allocation of substantial investment in the design, construction, operation, maintenance, rehabilitation, and monitoring of sustainable WDS. In line with these ideas, the purpose of this Special Issue is to assemble papers that present new research findings likely to contribute to the planning and management of WDS, using cutting-edge optimization techniques and creating a bridge between science and engineering applications. For further reading, please visit the [Special Issue website](#)

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Deadline for manuscript submissions

closed (31 December 2020)



Water

an Open Access Journal
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Impact Factor 3.0
CiteScore 6.0



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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

Dr. Jean-Luc PROBST

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