Special Issue

Optimization Studies for Water Distribution Systems

Message from the Guest Editor

Billions of dollars per year are spent on expanding, augmenting and maintaining water distribution systems every year. The planning and design of these systems is a complex process that involves the use of simulation models to estimate pressures and velocities throughout the network under a range of design conditions. A great deal of research has been carried out into the application of optimization techniques to the design of these systems. While research into this optimization problem has been undertaken for more than 50 years, new and improved techniques are still being developed. Furthermore, the practical application of these techniques to real world systems still has a way to go. This Special Issue will be aimed at summarizing the most recent developments in techniques for the optimization of water distribution systems as well as identifying research future needs. It will also summarize applications of the techniques in practice and identify what needs to be done to increase their application.

Guest Editor

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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

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