



water



an Open Access Journal by MDPI

Optimization Studies for Water Distribution Systems

Guest Editor:

Prof. Dr. Dandy Graeme

School of Civil, Environmental
and Mining Engineering, The
University of Adelaide, Adelaide,
SA 5005, Australia

Deadline for manuscript
submissions:

closed (30 April 2023)

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.



mdpi.com/si/111892

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)