Special Issue

Hydraulic Transients in Water Distribution Systems

Message from the Guest Editor

Hydraulic transients in water distribution systems (WDS) is a field of research that has advanced greatly in the last few decades. Hydraulic transients result from sudden changes in flow conditions in pipeline systems because of planned or accidental manoeuvers. Failures related to the effects of hydraulic transients can lead to major accidents and significant damage to pipeline systems. Nowadays, hydraulic transient analysis is a fundamental part of the design of water distribution systems. In recent years, much progress has been made thanks to the development of computer science, numerical models and novel analysis techniques. This Special Issue focuses on all advancements related to hydraulic transients in water distribution systems, mathematical simulations, new analysis techniques, laboratory tests, protection elements and systems against water hammer, innovative strategies for controlling water hammer, hydraulic transients with trapped air, hydraulic transients with water column separation, the consequences and risks of hydraulic transients, etc. This Special Issue aims to collect novel research related to hydraulic transients in any subject.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/88213

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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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