

## Special Issue

# Hydraulic Dynamic Calculation and Simulation

### Message from the Guest Editor

Hydraulic dynamic is an emerging basic concept whose application has important implications in many industrial and civil engineering problems. "Hydraulic Dynamic Calculation and Simulation" can be regarded as important tools to analyze and predict many physical processes and their related problems, along with decision making for mitigative measures. The most relevant application fields are as follows: 1) Flow and transport processes of single or multiphase fluids (water, oil, gas) in pipe networks, 2) Hydraulic transients water hammer problems in pipelines, 3) Hydraulic transients in free-surface flows, 4) Groundwater flow and transport problems, 5) Use of hydraulic machinery in industrial water systems (pumps), for energy conversion in hydropower stations (turbines), or pumps as turbines (PAT) in pumped-storage hydropower stations, 6) Use of micro-turbine, pressure reducing valves, and needle valves, installed in distribution or transport water networks. For further reading, please follow the link to the Special Issue Website at:

[www.mdpi.com/journal/water/special\\_issues/hydraulic\\_dynamic\\_calculation\\_simulation2](http://www.mdpi.com/journal/water/special_issues/hydraulic_dynamic_calculation_simulation2)

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 October 2022)



## Water

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## About the Journal

### 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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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