

## Special Issue

# Advances in Dam-Break Modeling for Flood Hazard Mitigation: Theory, Numerical Models, and Applications in Hydraulic Engineering

### Message from the Guest Editors

Dam-break modeling is still an important field of theoretical and applied research which is of great interest to hydraulic engineers. Indeed, floods potentially induced by the collapse of dams may have catastrophic consequences on downstream lands, both in terms of human and economic losses. Moreover, the vulnerability of older dams to hydrological extreme events is increasing due to structural deterioration or inadequate spillway capacity, as well as the exposure of the floodable areas as a result of urban development. Flood hazard assessment is indeed a prerequisite to design prevention and mitigation measures aimed at reducing the number of people affected by water-related disasters, which is one of the goals of the 2030 European Commission Agenda related to the improvement of living conditions in urban areas, [...] For further reading, please follow the link to the Special Issue Website at:

[https://www.mdpi.com/journal/water/special\\_issues/dam\\_model\\_flood\\_hydraulic](https://www.mdpi.com/journal/water/special_issues/dam_model_flood_hydraulic)

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### Guest Editors

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Prof. Dr. Andrea Maranzoni

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### Deadline for manuscript submissions

closed (25 July 2023)



## Water

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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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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