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Physical Modelling in Hydraulics Engineering

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Message from the Guest Editors

In recent years, the application of physical modeling in hydraulic engineering has experienced an increasing progress due to several factors. These factors, together with other societal challenges such as climate change, population growth or the digitalization of the water sector, have led to a paradigm shift in the development of physical models in the field of hydraulic engineering.

This Special Issue aims to cover the main relevant physical modeling approaches related with hydraulics engineering, including hydraulic structures, fluvial, coastal, transition zones, urban, and ecosystems. All contributions are welcomed, including innovative solutions for common aspects in nature and infrastructures, coming from both basic and applied research. Topics regarding novel instrumentation and application of usual devices to new developments, real case studies, and adaptation to climate change scenarios are especially welcomed. Other topics covered in the Special Issue are nature-based solutions both for environment to urban locations, and studies with comparison with numerical modeling for its calibration, as increasing field of interest.

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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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