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Innovative Model Strategies in Hydraulics

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Physical hydraulic modelling at reduced size is an important research and engineering method to understand complex fluid flows, to design, optimise and visualise sound engineering solutions and to provide data to calibrate and validate numerical models.

A major limitation of laboratory models are model and scale effects. Innovative strategies to model complex hydraulic phenomena, to avoid, compensate or correct scale effects and to improve model-prototype similarity have been developed over the years. These include experimental and numerical scale series to quantify scale effects, distorted models in fluvial hydraulics, cavitation tunnels, the replacement of water with another fluid and the experimental exploitation of Reynolds number invariance.

This Special Issue is dedicated to such scaling and model strategies in hydraulics. It aims to present research papers, reviews (state of the art) and case studies of novel, innovative and/or non-standard laboratory strategies to model complex fluid flows and to improve model-prototype similarity by overcoming scale effects. I am looking forward to receiving original and innovative contributions of high quality.

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Message from the Editor-in-Chief

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