

Special Issue

Advances and Challenges in Hydropower

Message from the Guest Editors

This special issue focuses on hydraulic structures such as dams, weirs, intakes, tunnel systems, power stations, spillways, and outlets from the waterways, which in turn represent one of the backbones for the generation of hydroelectricity. Contributions are invited which address the development of novel and innovative solutions for improving the reliability, efficiency, safety, and environmental friendliness of hydropower infrastructure and reservoirs. This includes contributions focusing on analytical considerations, scale model investigations, numerical simulations and field investigations. Special emphasis is placed on the further development of hybrid modelling strategies, i.e. the combined application of hydraulic scale models, numerical models and/or field investigations to make full use of the advantages and to minimize the uncertainties associated with the different modelling strategies.

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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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