



CFD Modelling and Simulation of Water Turbines

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Message from the Guest Editors

This Special Issue titled “CFD Modelling and Simulation of Water Turbines” aims to present recent novel research trends based on advanced CFD techniques for water turbines. The following topics, among others, will be included in this Issue:

- CFD numerical methods (i.e., URANS, LES, hybrid, DNS, etc.) applied to simulation of water turbines
- Performance of dynamic meshes (sliding mesh, overset mesh, IBM, etc.)
- Unsteady and transient phenomena in water turbines
- Design and optimization of water turbines
- Wake development and recovery
- Interaction turbine - free surface dynamics
- Conventional (i.e., hydraulic machines) and non-conventional turbines (e.g., hydrokinetic)
- Fluid–structure interaction
- Two-phase phenomena in water turbines (e.g. erosion and cavitation)





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Message from the Editor-in-Chief

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