



CFD Modelling and Simulation of Water Turbines

Guest Editors:

Prof. Dr. Santiago Lain

Department of Energetics and
Mechanics, Universidad
Autónoma de Occidente, Cali
760030, Colombia

Dr. Omar Dario Lopez Mejia

Department of Mechanical
Engineering, Universidad de los
Andes, Bogota 111711, Colombia

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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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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
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