

Special Issue

CFD Modelling and Simulation of Water Turbines

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)

Guest Editors

Prof. Dr. Santiago Lain

PAI+ Group, Mechanical Engineering Department, Faculty of Engineering, 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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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Giancarlo Cravotto

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

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