Special Issue

Multiphase Flow and Optimal Design in Fluid Machinery

Message from the Guest Editor

Multiphase flows, which involve the simultaneous movement of different phases such as gases, liquids, and solids, are integral to many natural and industrial processes. Optimizing the design of fluid machinery operating in multiphase environments helps to improve efficiency, reliability, and performance. This Special Issue will bring together cutting-edge research and practical insights to drive the development of fluid machinery design, ultimately contributing to more efficient, durable, and environmentally friendly industrial systems. By leveraging a multidisciplinary approach that combines computational fluid dynamics, experimental fluid mechanics, and material science, we can develop innovative solutions to address the challenges posed by multiphase flows, ensuring better performance and sustainability in various industrial applications.

Keywords:
- multiphase flow
- optimal design
- fluid machinery
- power engineering
- computational method
- experimental techniques
- theoretical model
- ocean engineering

Guest Editor

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