Special Issue

Recent Advances in Hydraulic Machinery and Its Application in Marine Engineering

Message from the Guest Editors

As an important branch of hydraulic machinery, ocean fluid machinery plays an indispensable role in the development of marine resources and the construction of marine engineering. A thorough exploration of the internal flow state of ocean fluid machinery has significant academic value and practical implications.

- Advances in numerical simulation and experimental techniques for analyzing internal flows in marine hydraulic machinery.
- Insight into the complex flow patterns and turbulence characteristics within marine pumps, turbines, and other related equipment.
- Investigations into the influence of internal flow mechanisms on the performance, efficiency, and reliability of marine fluid machinery.
- Innovations in design optimization and material selection to enhance the internal flow characteristics and overall performance of marine fluid machinery.
- Studies on the interaction between internal flows and structural dynamics in marine fluid machinery, and its impact on operational stability and safety.
- Cross-disciplinary approaches that integrate fluid dynamics, mechanical engineering, and materials science to address challenges in marine fluid machinery design and operation.

Guest Editors

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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