Special Issue

Advancements in Hybrid Power Systems for Marine Applications

Message from the Guest Editors

The maritime industry is currently undergoing a significant transformation, marked by the transition towards propulsion systems that are both energy-efficient and environmentally friendly. This shift is prominently reflected in the adoption of hybrid and all-electric propulsion systems, using renewable energy sources such as photovoltaics, fuel cells, hydrogen, and other emerging technologies. The evolution of advanced electrical distribution topologies further enhances these systems' efficiency and reliability. This highlights the critical role of power management systems in optimizing the performance of hybrid power systems. Efficient power management is paramount to ensuring the reliability, sustainability, and overall effectiveness of hybrid and all-electric propulsion systems, especially as vessels navigate diverse operational conditions. This Special Issue aims to present and share the latest advancements in the theory, design, modeling, application, route planning, and energy optimization of hybrid electric maritime vessels.

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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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