



Advancements in Power Management Systems for Hybrid Electric Vessels

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Message from the Guest Editors

The maritime industry is currently undergoing a significant transformation, marked by the transition towards propulsion systems that are not only energy-efficient but also environmentally friendly. This shift is prominently reflected in the adoption of hybrid or all-electric propulsion systems, leveraging renewable energy sources (like photovoltaic and fuel cells) and evolving advanced electrical distribution topologies. As vessels embark on the journey towards all-electric propulsion, they encounter challenges associated with variable and fluctuating propulsion loads. In response to this, hybrid energy storage systems have emerged as effective solutions, particularly when integrating renewable sources.

This Special Issue aims to present and share the most recent advancements in the theory, design, modeling, application, route planning, and energy optimization tailored specifically for hybrid electric maritime vessels.





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Message from the Editor-in-Chief

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