

## 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.

### Guest Editors

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### Deadline for manuscript submissions

31 July 2026



## Journal of Marine Science and Engineering

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

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