Special Issue

Sustainable Ocean Engineering and Intelligent Control Systems

Message from the Guest Editors

This Special Issue seeks original research and review articles focusing on the intersection of sustainable ocean engineering and intelligent control systems. With growing global reliance on maritime transportation and the increasing impact of extreme oceanic weather events, innovative engineering solutions are essential for ensuring both operational efficiency and environmental sustainability. This Special Issue aims to explore the following: (i) intelligent navigation systems that leverage weather forecasting and uncertainty modeling for safer ocean transit; (ii) control strategies for ship operations under adverse conditions such as high winds, large waves, and typhoons; and (iii) sustainable practices and engineering designs that minimize ship emissions and environmental impact. We encourage contributions that advance methodologies for dynamic routing, weather-based risk management, and the intelligent control of marine systems, including adaptive algorithms and predictive models. Special emphasis is placed on handling extreme scenarios, such as ship speed loss in rough seas and typhoon-avoidance strategies informed by uncertain forecasts.

Guest Editors

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Deadline for manuscript submissions

closed (10 October 2025)



Sustainability

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Impact Factor 3.3 CiteScore 7.7



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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