

## 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.

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### Guest Editors

Dr. Weihao Ma

School of Navigation, Wuhan University of Technology, Wuhan, China

Prof. Dr. Dongfang Ma

Ocean College, Zhejiang University, Zhoushan, China

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### Deadline for manuscript submissions

10 October 2025



## Sustainability

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*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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## About the Journal

### 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. *Sustainability* publishes original research articles, review 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.

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### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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