# Special Issue

## Control and Optimization of Ship Propulsion System

### Message from the Guest Editor

Marine ships experience multiple-source disturbances on propulsion systems in practice due to marine environment disruptions induced by waves, wind, currents, structural vibration, mechanical friction, and modelling errors. These multiple-source disturbances can be divided into the external disturbances, the inner disturbances, and the modelling uncertainties, which present strong coupling effects. Coupling disturbances would affect the control effects of ship propulsion system, such that the movement performance of the ships would be degraded. Therefore, the ship propulsion systems should be controlled by advanced control and optimization schemes. The advanced motion control schemes, such as disturbance observer-based control, sliding mode control, and robust control, have been widely applied in ship propulsion systems. This call for papers aims to provide an opportunity for researchers and practitioners to exchange the latest theoretical and technical achievements in the advanced control and optimization of ship propulsion system.

### Guest Editor

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### Deadline for manuscript submissions

30 November 2025

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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.

## Editor-in-Chief

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