

Special Issue

Machine Learning for Prediction of Ship Motion

Message from the Guest Editors

Ship motion prediction is crucial in maritime operations, particularly in navigation safety, control, and operational efficiency. Since the advancement of machine learning, researchers have increasingly explored data-driven approaches to enhance the accuracy and reliability of ship motion forecasting. This Special Issue highlights the latest advancements in machine learning techniques for short-term time series prediction of ship motion and system identification methods for estimating hydrodynamic coefficients related to seakeeping and maneuvering. We welcome high-quality papers directly addressing various aspects of ship motion prediction, including, but not limited to, the following:

- Machine learning-based short-term time series prediction for ship motion;
- Data-driven approaches for ship maneuvering and seakeeping analysis;
- System identification methods for estimating hydrodynamic coefficients;
- Applications of AI in ship stability, route optimization, and safety enhancement.

Guest Editors

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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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