



Evolutional Marine Propulsion System Design for the Carbon Neutral World

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Message from the Guest Editors

Dear Colleagues,

Marine propellers have a long history of more than 200 years. The propeller not only plays the role of a propulsion device, but also greatly affects other performances such as maneuverability due to interference with the hull and rudder.

Furthermore, the improvement of hull resistance recently neared the limit, and the number of ships equipped with so-called energy-saving devices (ESDs) in the ship stern is increasing. In such ships, propeller design methods have also changed significantly from the past.

About 50 years ago, the goal of propeller design was to provide maximum propulsive efficiency while satisfying the so-called propeller design conditions that came from the main engine rating and wake flow generated by the ship stern.

At present, propellers have come to play an important role in regulations such as EEDI, EEXI, minimum power requirements and underwater propeller noise regulations.

In this Special Issue, we would like to review the latest technology mentioned above, focusing on aspects not considered in previous conventional propeller design.





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Message from the Editor-in-Chief

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