

Special Issue

Technologies for Sustainable Shipping in the Polar Regions

Message from the Guest Editors

There is significant shipping in cold regions with extended ice cover, including the Arctic, the Antarctic, and other warmer regions, such as the Bay of Bothnia and the Gulf of Finland. Moreover, Climate Change contributes to the further development of polar shipping routes by more favorable ice conditions expected in the future. However, operating a ship in ice is energy-consuming and requires developing advanced technologies for environmentally friendly shipping, yet accounting for other sustainability domains. Studying the environmental domain of sustainability is especially relevant for the Arctic, considering its sensitive ecosystem and the local effect of air pollution. This Special Issue invites theoretical and applied contributions, developing innovative technologies for environmentally friendly, safe, and cost-efficient ships and maritime transport systems operating in ice.

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Deadline for manuscript submissions

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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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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