Special Issue

Smart and Low Carbon Emission-Oriented Maritime Traffic Management and Controlling

Message from the Guest Editors

Maritime transportation is considered to be a cost-effective manner used to transfer goods around the world. In that way, the maritime community has paid significant attention to enhancing maritime traffic efficiency as well as energy consumption. It is noted that approximately 3% of global carbon emissions come from the shipping industry; thus, there is a significant focus on reducing the carbon emissions of the shipping industry. The focus of many researchers is on employing artificial intelligence (AI), big data, and computer-vision-related techniques to enhance maritime traffic efficiency. It has been found that there are many challenges in the automatous shipping era, along with carbon peaking and carbon neutrality. For instance, it is not easy to automatically find an optimal ship trajectory with low economic cost and fuel consumption for a given voyage. In attempt to reach this aim, we welcome the submission of novel studies to promote cost-effective yet high-efficiency maritime traffic with feasible and transferable solutions.

Guest Editors

Dr. Xinqiang Chen

Insitute of Logistics Science and Engineering, Shanghai Maritime University, Shanghai 201306, China

Dr. Salvatore Antonio Biancardo

Department of Civil, Construction and Environmental Engineering, University of Naples Federico II, 80125 Naples, Italy

Deadline for manuscript submissions

closed (30 June 2025)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/194159

Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

MDPI

About the Journal

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

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).