

Special Issue

Maritime Autonomous Vessels

Message from the Guest Editors

The main goal of this special issue is to address the key challenges, thereby promoting research on marine autonomous ships. Topics of interest of this special issue include, but are not limited to, the following aspects:

- Intelligent and autonomous marine ships
- Mathematical models for marine ships
- AIS data analysis
- Maritime safety and risk assessment for autonomous ships and respective regulations
- Guidance, navigation and Control system design and applications
- Path following, path planning, trajectory planning and automatic collision avoidance for marine ships
- Machine learning methods and its application in marine autonomous ships
- Measurements and experiments in relationship to the behaviour of ships
- Sea trials and ship model tests
- Data Acquisition system and multi-sensor data fusion
- Multi-objective optimization design
- Applications of autonomous vessels in environmental monitoring, mapping and surveillance, search and rescuing operations, habitat mapping, marine biology and geology, hydrographic explorations
- Automatic berthing and unberthing
- Automated onboard systems

Guest Editors

Dr. Haitong Xu

Dr. Lúcia Moreira

Prof. Dr. Carlos Guedes Soares

Deadline for manuscript submissions

closed (31 March 2022)



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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

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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

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).