



Maritime Autonomous Vessels

Guest Editors:

Dr. Haitong Xu

Centre for Marine Technology
and Ocean Engineering
(CENTEC), Instituto Superior
Técnico, Universidade de Lisboa,
Lisbon, Portugal

Dr. Lúcia Moreira

Centre for Marine Technology
and Ocean Engineering
(CENTEC), Instituto Superior
Técnico, Universidade de Lisboa,
Av. Rovisco Pais, 1049-001
Lisbon, Portugal

Prof. Dr. Carlos Guedes Soares

Centre for Marine Technology
and Ocean Engineering
(CENTEC), Instituto Superior
Técnico, Universidade de Lisboa,
Av. Rovisco Pais, 1049-001
Lisboa, Portugal

Deadline for manuscript
submissions:

closed (31 March 2022)



mdpi.com/si/86596

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



an Open Access Journal by MDPI

Editor-in-Chief

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI