



Autonomous Marine Vehicle Operations

Guest Editors:

Prof. Dr. Xiao Liang

School of Naval Architecture and
Ocean Engineering, Dalian
Maritime University, Dalian
116026, China

Prof. Dr. Rubo Zhang

College of Mechanical and
Electronic Engineering, Dalian
Minzu University, Dalian 116600,
China

Dr. Xingru Qu

School of Mechanical and
Electronic Engineering, Dalian
Minzu University, Dalian 116600,
China

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Message from the Guest Editors

Dear Colleagues,

In recent years, there has been growing progress in autonomous marine vehicle operations, motivated by the impact on increasingly challenging scientific, economical, and environmental surface and underwater applications. The increasing demand for marine vehicles to undertake more complex tasks under the harsh marine environments poses new challenges which necessitate the development of advanced and intelligent operation approaches for single and multiple vehicles. This Special issue offers a collection of high-quality research articles contributing to topics on:

- Marine vehicle modelling and simulation technologies;
- Marine vehicle navigation and guidance;
- Path planning, motion control, obstacle detection, and avoidance;
- Learning-based control algorithms for marine systems;
- Swarm intelligence and control in marine vehicle applications;
- Distributed and cooperative marine vehicles and systems;
- Underwater vision and identification;
- Water surface object detection and recognition;
- Fault diagnosis design and fault tolerant control of ROV/UUV;
- Propulsion systems and energy efficiency;
- Maritime safety and risk assessment.





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

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.

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

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