

Special Issue

Advanced Research in Guidance, Navigation, and Control for Autonomous Surface Vehicle

Message from the Guest Editors

Introducing a high level of autonomy to marine applications has become a pertinent topic across the globe. Autonomous surface vehicles (ASVs) are characterized by intelligence and flexibility; furthermore, the application of an ASV can increase efficiency and protect operators from danger. Guidance, navigation, and control are the key technologies for an ASV. This Special Issue seeks cutting-edge research about the guidance, navigation, and control of ASVs to satisfy the increasing need to perform more complex missions. The Special Issue includes, but is not limited to, the following topics:

- Modeling and simulation technology for ASVs;
- Advanced perception technology for ASVs;
- The path planning method for ASVs;
- The automatic berthing control method for ASVs;
- The cooperative control method for ASVs;
- Path following and roll reduction for ASVs;
- The automatic collision avoidance for ASVs;
- The guidance method for ASVs;
- Navigation technology for ASVs.

Guest Editors

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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
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