

# Special Issue

## Advancements in New Concepts of Underwater Robotics

### Message from the Guest Editors

The ocean is rich in oil and gas energy reserves, rare minerals and sea creatures. As such, it is regarded as a crucial object of research from a wide array of perspectives including scientific, environmental, as well as military. In this context, underwater robotic systems have emerged as a fascinating research area and a promising industry tool as advanced technologies are being increasingly explored to design various subsystems. Significant research efforts have been undertaken to develop new concepts of underwater robotics to overcome the many engineering challenges engendered by the unstructured and hazardous ocean environment. This Special Issue aims to collate research papers that provide an overview of the recent progress in the investigation and practical applications of new underwater robotics concepts. Potential topics include, but are not limited to, the following: design method; control algorithm; topological optimization; hydrodynamic analysis; prognosis and health management; practical applications and experiments; reliability and safety; and future perspectives for underwater robotics.

### Guest Editors

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### Deadline for manuscript submissions

closed (25 August 2024)



## Journal of Marine Science and Engineering

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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
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