



Advancements in New Concepts of Underwater Robotics

Guest Editors:

Prof. Dr. Yunsai Chen

College of Innovative
Development, Harbin
Engineering University, Qingdao
266000, China

Prof. Dr. Xiufen Ye

College of Intelligent Systems
Science and Engineering, Harbin
Engineering University, Harbin
150001, China

Deadline for manuscript
submissions:

closed (25 August 2024)

Message from the Guest Editors

Dear Colleagues,

The ocean is rich in oil and gas energy reserves, rare minerals and sea creatures. As such, it is regarded as 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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
Oceans Graduate School and 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.

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), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (*Civil and Structural 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](#)