

Special Issue

Autonomous Systems and Technologies of Underwater Robots

Message from the Guest Editors

Operating in the deep ocean presents a unique set of engineering constraints: it is an unstructured, communications-denied environment that challenges the robustness of conventional robotic solutions. This Special Issue aims to highlight practical advancements moving marine autonomy from simulation to sea. As the industry sees increased demand for reliable oceanographic data collection, offshore asset inspection, and maritime security, the requirement for truly intelligent systems—capable of long-duration operation without human-in-the-loop supervision—has become critical. We invite researchers to submit contributions that bridge the gap between theoretical algorithm design and successful deep-sea deployment. The focus is on rigorous experimental validation in the areas of robust perception, navigation in GPS-denied zones, and bio-inspired mechanical design. We are looking for interdisciplinary work that defines how AUVs and ROVs effectively perceive, interact with, and navigate complex marine environments.

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Deadline for manuscript submissions

10 February 2027



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 5.6



mdpi.com/si/271460

Journal of Marine Science and Engineering

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About the Journal

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.

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