Special Issue

Advances in Underwater Positioning and Navigation Technology

Message from the Guest Editors

The realm of underwater exploration and operations has been transformed by significant advancements in positioning and navigation technologies. This Special Issue is dedicated to capturing the latest research, innovations, and practical applications in underwater positioning and navigation. As the need for precise navigation systems grows in fields such as marine resource exploration, environmental monitoring, and underwater construction, this issue invites contributions from researchers, academics, and industry experts. The focus is on cutting-edge technologies, including acoustic positioning systems, inertial navigation, diver navigation, and autonomous underwater vehicle (AUV) navigation. It aims to showcase breakthroughs in sensor integration, algorithm development, and real-time data processing to improve precision and reliability. By tackling challenges such as dynamic water conditions, complex underwater terrain, and attenuation and scattering of sound wave propagation, this Special Issue aspires to be a comprehensive resource for enhancing the capabilities and applications of underwater navigation systems worldwide.

Guest Editors

Dr. Qiuying Wang

College of Underwater Acoustic Engineering, Harbin Engineering University, Harbin 150001, China

Dr. Đula Nađ

Laboratory for Underwater Systems and Technologies (LABUST), Faculty of Electrical Engineering and Computing (FER), University of Zagreb (UNIZG), Unska ulica 3, 10000 Zagreb, Croatia

Deadline for manuscript submissions

5 March 2026



Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.0



mdpi.com/si/217817

Journal of Marine Science and Engineering Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 jmse@mdpi.com

mdpi.com/journal/ jmse





Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.0





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 School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

