Special Issue

Application of Sensing and Machine Learning to Underwater Acoustic

Message from the Guest Editors

The aim of this Special Issue is to promote and disseminate the latest research that focuses on machine learning applications in underwater acoustics. Papers that address applications of machine learning in all fields of underwater acoustics—including (but not limited to) active and passive sonar, imaging, tomography, communication, bioacoustics, source localization, seabed characterization, signal classification, propagation modeling, and environmental monitoring—are welcomed. A broad interpretation of what qualifies as "machine learning" is adopted for this Special Issue, which includes advanced signal processing and Bayesian approaches. This issue seeks to highlight how the rapid improvement of computational resources and development of new algorithms are advancing the development of robust machine learning approaches to solve significant challenges in the field of underwater acoustics.

Guest Editors

Dr. Tracianne B Neilsen
Department of Physics and Astronomy, Brigham Young University, Provo, UT 84602, USA

Dr. Haiqiang Niu
Institute of Acoustics, Chinese Academy of Sciences, Beijing 100190, China

Deadline for manuscript submissions

closed (15 February 2023)

Journal of Marine Science and Engineering

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

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
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).