Special Issue

Machine Learning Methodologies and Ocean Science

Message from the Guest Editors

Oceanic changes attributed to climate change are having significant impacts on marine and non-marine life forms across the globe. These direct and indirect changes manifest across time and space, requiring timely, accurate, and reliable data for decision making to identify and prioritise risks and to develop effective mitigation and adaptation strategies. For example, globally, sea level rise (SLR) is caused by the thermal expansion of ocean waters combined with freshwater input from melting glaciers and ice sheets. Between 1901 and 1990, the rate of global mean SLR was 1.35 mm/year greater than the rate of SLR in any century over the last 3000 years (IPCC, 2022). However, rates of SLR and other oceanic changes differ depending upon geographical factors and context. With the availability of ground-based and remote sensing datasets, machine learning techniques have provided highly accurate and reliable platforms to determine projections of future oceanic changes.

Guest Editors

Dr. Nawin Raj

Dr. Lila Singh-Peterson

Dr. Nathan Downs

Deadline for manuscript submissions

closed (10 April 2025)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/202530

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

mdpi.com/journal/jmse

MDPI

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).