

Special Issue

Multi-Scale Numerical Ocean Modeling

Message from the Guest Editor

We invite you to submit your valuable works to the Special Issue “Multiscale Numerical Ocean Modeling”, which may involve numerical modeling on variability and dynamics of oceanic phenomena on variant temporal and spatial scales, and on variant fields (such as physical oceanography, biogeochemical oceanography, and engineering). Submitted modeling works may be based on simplified or moderate, or complicated models, and could be idealized or realistic. With the rapid improvement of computational resources in recent decades, numerical modeling has progressed dramatically, including in its resolution and complexity. The aim of this Special Issue is to promote and disseminate the latest works focused on modeling and solving individual/interdisciplinary geophysical problems, such as ocean currents, hydrography, and biogeochemistry, in the ocean on the temporal scale from days to weeks, and on the spatial scale from tens to hundreds of kilometers. On the other hand, modeling with innovative numerical techniques of interest, including variant numerical methods and machine learning or artificial intelligence techniques, is also welcome to this Special Issue.

Guest Editor

Dr. Yi-Chia Hsin

Academia Sinica, Research Center for Environmental Changes, Taipei, Taiwan

Deadline for manuscript submissions

closed (20 June 2022)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/89102

*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](https://mdpi.com/journal/jmse)



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.

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 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).