

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)



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

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

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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).