

Special Issue

Advances in Storm Tide and Wave Simulations and Assessment

Message from the Guest Editors

Storm surges and waves pose significant risks to coastal areas, increasingly exacerbated by climate change and sea-level rise. The accurate simulation and assessment of these phenomena are essential for understanding their impacts on coastal infrastructure and communities. This Special Issue seeks to highlight advancements in storm tide and wave simulations, including new modeling techniques, data assimilation strategies, and observational methods. We aim to improve the understanding of these phenomena under current and future climate scenarios and promote innovative approaches to risk reduction and adaptation. We encourage submissions that focus on the development of new numerical models, integration of novel data sources, and advanced forecasting techniques using artificial intelligence and machine learning. We invite original research, reviews, and case studies that advance knowledge in storm tide and wave simulations and assessments, particularly those enhancing prediction accuracy, understanding physical mechanisms, and proposing innovative risk management solutions.

Guest Editors

Dr. Wei-Che Huang

Prof. Dr. Wen Cheng Liu

Dr. Chih-Chieh Young

Deadline for manuscript submissions

25 August 2025



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/217959

*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](https://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

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).