

Special Issue

Application of Smoothed Particle Hydrodynamics on Fluid-Floating Structure Interaction

Message from the Guest Editors

We invite contributions to this Special Issue centered on the interplay between sea waves and floating structures through advanced numerical simulations. This Special Issue welcomes research articles that harness state-of-the-art computational methodologies based on smoothed particle hydrodynamics technique to elucidate the intricate interactions of floating structures with currents and sea waves, including gravity waves, tsunami-like waves and infra-gravity waves.

Researchers are encouraged to submit their work addressing a spectrum of topics, including wave-structure interaction phenomena, hydrodynamic loading on coastal infrastructure, performance and response of offshore wind and wave energy devices, and innovative simulation techniques. By collating groundbreaking studies, this Special Issue strives to foster innovation in coastal and ocean engineering, hazard mitigation, and sustainable shoreline development. High-quality papers related to the following topics are encouraged:

- Coastal engineering;
- Floating breakwaters;
- Offshore renewable energy;
- Naval architecture and ship design;
- Aquaculture and fish farming;
- Environmental impact studies.

Guest Editors

Dr. Ramón Moncho Gómez Gesteira

Dr. Bonaventura Tagliafierro

Dr. Corrado Altomare

Deadline for manuscript submissions

closed (20 January 2024)



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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

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Author Benefits

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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).