

## 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.

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### Guest Editors

Dr. Ramón Moncho Gómez Gesteira

Dr. Bonaventura Tagliafierro

Dr. Corrado Altomare

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### Deadline for manuscript submissions

closed (20 January 2024)



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
CiteScore 5.0



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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
School of Engineering, The UWA Oceans Institute, The University of  
Western Australia, Perth, WA 6009, Australia

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#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean  
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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
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the first half of 2025).