



Recent Advances in Particle/Grid-Based Methods and Applications in Marine and Ocean Engineering 2nd Edition

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Deadline for manuscript submissions:
closed (10 March 2024)

Message from the Guest Editors

Dear Colleagues,

The continuous search for more effective and efficient numerical methods for use in various complicated flows has been one of the most active research areas in marine and ocean engineering. The aim is to provide a platform for the presentation and discussion of the most recent developments in the particle-/grid-based methods and their applications for ship and offshore structures in various conditions.

Numerical methods: Smoothed Particle Hydrodynamics method; Moving Particle Semi-implicit method; Discrete Vortex Method; Discrete Element Method Particle in Cell; Lattice Boltzmann method; Boundary Element Method; Finite difference, finite volume, and finite element methods; Hybrid particle-grid methods; Machine Learning (ML) algorithms/methods

Applications: Sloshing; Slamming; Green water; Hydroelasticity; Ship-ice-water interaction; Deep sea mining; Wave Energy Converter; Energy Harvesting Device; Fixed and floating offshore structures; Fluid dynamics





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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.

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