

Special Issue

Computational Fluid Dynamics Simulation of Floating Offshore Structures—2nd Edition

Message from the Guest Editors

Computational fluid dynamics (CFD) uses numerical analysis and data structures to analyze and solve problems involving fluid flows. CFD is gaining popularity in ocean engineering as a result of the availability of ever-increasing computational power. This Special Issue covers the entire range of issues and technologies related to floating offshore structures (floating and fixed offshore platforms, offshore infrastructures, etc.), with a strong emphasis on CFD simulation technology. We seek contributions spanning a broad range of topics related (but not limited) to the following:

- Hydrodynamics;
- Computational fluid dynamics;
- Vortex-induced vibrations;
- Fluid–structure interactions;
- Linear and nonlinear wave mechanics;
- Buoyancy and stability;
- Ship resistance and propulsion;
- Ship maneuvering and radiated noise.
- Water and environment.

Guest Editors

Dr. Bin Xu

Dr. Yanmei Jiao

Dr. Xi Shen

Deadline for manuscript submissions

closed (10 October 2024)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/189034

*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://www.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

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

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 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).