

## Special Issue

# Marine CFD: From Resistance Prediction to Environmental Innovation

### Message from the Guest Editor

This Special Issue focuses on numerical methods advancing cleaner marine technologies, encompassing both marine vessels and ocean renewable energy systems. Modern computational techniques, from potential flow theories to high-fidelity CFD, have become essential tools for developing environmentally sustainable marine solutions. The scope of this Special Issue includes the following:

- Numerical methods in ship design and optimization;
- Seakeeping and manoeuvring prediction;
- Marine renewable energy devices;
- Potential flow and panel methods;
- Computational fluid dynamics;
- Fluid–structure interaction;
- Hybrid numerical approaches;
- Energy efficiency analysis;
- Environmental impact assessment;
- Performance prediction methods;
- Experimental validation studies.

We welcome original research papers demonstrating innovative numerical approaches that contribute to environmental sustainability in marine applications. Both fundamental research and industry-focused case studies are encouraged.

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### Guest Editor

Dr. Soonseok Song

Department of Naval Architecture & Ocean Engineering, College of Engineering, Inha University, Incheon 22212, Republic of Korea

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### Deadline for manuscript submissions

10 January 2026



## Journal of Marine Science and Engineering

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*Journal of Marine Science and  
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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[jmse@mdpi.com](mailto:jmse@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

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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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indexed with Scopus, SCIE (Web of Science), Ei  
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#### 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  
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