Special Issue

Phaseresolving Surface Wave Modeling

Message from the Guest Editor

In contrast to the numerous attempts to describe the wave motion with different substitute equations, the numerical modeling is based on the initial equations of fluid dynamics with free surface. A phaseresolving technique allows considering waves as they are. It is the phaseresolving modeling that provides the opportunities for investigation and parameterization of physical processes in waves. This modeling can be used for development of spectral modeling, interpretation of wave spectrum in terms of real waves and for direct modeling of waves in small basins. The high quality papers directly related to various aspects of wave modelling are encouraged for publication, including:

- Numerical schemes for solution of the full 2-D and 3-D equation of potential motion with free surface;
- Parameterization schemes for input and dissipation of energy.
- Examples of simulations.

Guest Editor

Prof. Dr. Dmitry Chalikov
P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

Deadline for manuscript submissions

closed (10 August 2021)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/84337

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

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

MDPI

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.

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 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).