

Special Issue

Machine-Learning Methods and Tools in Coastal and Ocean Engineering

Message from the Guest Editors

This Special Issue invites authors to submit original articles dedicated to innovative applications of machine learning methods in Coastal and Ocean engineering. These articles can be focused i) on demonstrating innovative solutions to reduce the parameter count and amount of training data (Extreme Learning Methods), simplifying the training step and shortening the computational time; ii) on adaptive machine-learning methods (Genetic Algorithm), to build up analytical formulae; iii) on innovative and advanced applications, such as optimization problems (e.g. the Harmony Search Algorithm for the design of coastal structures), pattern recognition (e.g., for the automatic detection of the free-surface, the estimation of the amount of air entrainment in bi-phase flows, the set-up of alarm systems based on video-monitoring), or cost minimization (e.g., for the setup of decision support systems).

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2024).