

Special Issue

Cavitation Control in Marine Engineering: Modelling and Experiment

Message from the Guest Editor

Cavitation is one of the undesirable phenomena in different industrial applications such as marine engineering and hydraulic systems. The cavitation can induce significant erosion, vibration, noise and performance degradation on hydrofoils, rudders, propellers and hydraulic machinery components such as pump impeller and turbine blades which operate at different cavitating regimes. Despite a number of studies investigating cavitation control using passive and active control methods, comprehensive numerical and experimental data on the control of cavitation are still lacking in the literature. This Special Issue aims to provide researchers with the opportunity to present their original works on numerical modeling and experimental study of the control of cavitation for different applications. Manuscripts can focus on fundamental research or applied research, e.g. cavitation control around hydrofoils and propellers; cavitation control using passive and active control methods; cavitation control in internal flows; control of underwater radiated noise; control of cavitation-induced erosion; and control of cavitation-induced vibration.

Guest Editor

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Deadline for manuscript submissions

closed (5 April 2026)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/177795

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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

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