Special Issue

Cavitation Control in Marine Engineering: Modelling and Experiment

Message from the Guest Editor

Cavitation is one 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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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

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