

Special Issue

The Interaction of Ocean Waves and Offshore Structures

Message from the Guest Editors

A vast variety of offshore structures are employed to explore, produce, and transport offshore resources, to carry people and products across the oceans, and for nations to defend themselves. Of central importance for their design is the reliable prediction of forces associated with the interaction of ocean waves and these structures. This requires understanding not only the physics of flow separation and turbulence, but also a competent usage of computational fluid dynamics. Although offshore structures have recently demonstrated importance for the production of oil and gas, these structures are increasingly utilized to support wind turbines and wave energy devices. Offshore structures are exposed to the harsh environment of waves, current, wind, and possibly even earthquakes. As the influence of the environmental forces is random, their design must be based on the extreme responses during the structure's lifetime. This Special Issue aims to collect papers that present research advances related to all aspects concerned with the interaction of ocean waves and offshore structures.

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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

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