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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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.

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