

Special Issue

Offshore Structures and Hydrodynamic Modeling

Message from the Guest Editors

Over the past half-century, ocean engineering has witnessed its golden age. There are magnificent offshore structures being developed and built to explore offshore oil and gas. More recently, engineers and researchers have been focusing on designing offshore renewable devices to explore these oceanic resources in a sustainable way. All of these designs cannot be achieved without the development of precise numerical models of such structures under marine environments. The purpose of this Special Issue is, therefore, to promote research on offshore structure design, as well as to publish cutting-edge work on the structural and hydrodynamic modeling of offshore structures. The topic of this Special Issue will include but not be limited to:

- novel designs of offshore structures, including oil and gas platforms, renewable energy devices, marine surface vehicles, underwater vehicles, aquaculture facilities, and very large floating structures;
- structural analysis of the above marine structures;
- hydrodynamic modeling of floating bodies;
- linear and nonlinear wave loads;
- experimental test of marine structures;
- offshore wind turbine modeling;
- ship hydrodynamics.

Guest Editors

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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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