Special Issue

CFD Applications in Ship and Offshore Hydrodynamics 2nd Edition

Message from the Guest Editors

Computational fluid dynamics (CFD) methods are becoming an increasingly reliable and indispensable tool in the field of ship and offshore hydrodynamics, playing a key role in advancing their design, analysis, and optimization. The ability of CFD to simulate complex fluid flows offers a significant advantage over traditional experimental methods. While physical experiments often require expensive facilities and long preparation times, CFD provides a faster and more cost-effective alternative. Through parametric studies and optimization techniques, CFD can help identify robust, efficient, and economically viable solutions for both new designs and retrofits. Given the growing emphasis on environmental sustainability, CFD's ability to assess the hydrodynamic performance of ships and offshore structures under various operating conditions is essential for minimizing fuel consumption, reducing greenhouse gas emissions, and ensuring compliance with increasingly stringent environmental regulations.

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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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