Special Issue

Wave Excitation Loads and Structural Assessment in Maritime and Offshore Engineering

Message from the Guest Editors

This Special Issue, Wave Excitation Loads and Structural Assessment in Maritime and Offshore Engineering, seeks contributions that explore the complex interactions between hydrodynamic wave forces and structural responses in maritime (shipping) and offshore environments. With growing challenges from harsher ocean conditions, ageing infrastructures, and demands for sustainable and resilient systems, this Special Issue aims to highlight state-of-the-art research, innovative solutions, and comprehensive reviews in this field. This Special Issue also aims to bridge the gap between academic research and practical applications by showing case studies, regulatory developments, and innovative design methodologies. Contributions that explore the coupling of hydrodynamic and structural responses, interdisciplinary approaches, and the application of artificial intelligence, machine learning, or digital twin technology in load prediction and structural assessment are highly welcome. This Special Issue will serve as a comprehensive resource for engineers, researchers, and policymakers to enhance maritime and offshore structures' safety, efficiency, and sustainability.

Guest Editors

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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.

Editor-in-Chief

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