Special Issue

Dynamic Behavior of Offshore Structures under Extreme Loads

Message from the Guest Editor

With increasing an risk of extreme events on offshore structures in recent years, where exposure and vulnerability are high, the protective and resilient design of these structures is a topic of importance. Offshore structures may be subjected to different natural hazards such as earthquakes, hurricanes, tsunamis, scours, landslides, as well as environmental and operational deterioration related to material aging, corrosion, and fatigue, etc., during their service life. Because of the low redundancy of offshore structures such as bridges, recognizing their failure behaviors and dynamic responses under extreme loads plays a vital role in the reliability and fail-safe design of these structures. Some of the key research topics in offshore extreme hazards are single/multi-hazard assessments, safety analyses, risk mitigation strategies, as well as performance-based design, resilience-based design, and evaluations of their sustainability and durability, and the protection of offshore assets. This Special Issue aims to publish the original research and development work related to the performance assessment and design of offshore structures under extreme loads.

Guest Editor

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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.

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