Special Issue

Safety of Ships and Marine Design Optimization

Message from the Guest Editor

The design of ships is becoming increasingly more challenging, with the concurrent disruptive influences of decarbonization, digitalization and increased autonomy. Ensuring the safety of these ships while increasing their efficiency to new levels is a critical priority in maritime engineering. With the growing demand for sustainability, automation, and resilience, the field is undergoing rapid transformation. This Special Issue aims to bring together cutting-edge research addressing both traditional and emerging challenges in ship safety and design optimization. Topics may include novel approaches to maritime safety, risk-based design, model-based systems engineering, ship stability and fire safety, structural integrity, human factors, digital twin technologies, AI-driven optimization, and the integration of safety regulations into early-stage design processes. We invite high-quality original research and review articles that advance theoretical understanding or offer practical solutions. The goal is to capture the state-of-the-art in this multidisciplinary research area and shape the future of a safer and more efficient maritime industry.

Guest Editor

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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

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