



Optimal Design of Ship Energy Systems

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Deadline for manuscript
submissions:

closed (1 October 2023)

Message from the Guest Editor

Dear Colleagues,

Researchers have long been interested in marine energy systems, including alternative fuels, developments in emerging technologies, artificial intelligence methods, big data analytics, and advances in autonomy/automation of marine systems. After the COVID-19 pandemic, the research and development on renewable energies and clean fuels became of great importance. Ship design aims to disrupt the current dependency on traditional fuel sources and enable the transition towards net-zero. The shipbuilding industry is exploring advancements in alternative fuel sources (hydrogen and ammonia) and full electrification by means of batteries, developing emerging technologies to improve vessel efficiency, and integrating onboard energy system management devices.

This Special Issue focuses on the intersection between energy systems' design, modeling, and optimization to address climate change prevention and mitigation. We invite all interested authors to submit novel/original studies and reviews that advance the scientific/technical understanding of the topics addressed.

Dr. Mousa Marzband

Guest Editor



mdpi.com/si/170705

Special Issue



an Open Access Journal by MDPI

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Message from the Editor-in-Chief

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