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Hydrodynamic Design of Ships

Guest Editor:

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Deadline for manuscript submissions:
closed (15 February 2021)

Message from the Guest Editor

Dear Colleagues,

During the last two decades, the idea of designing a ship with satisfactory hydrodynamic performance in calm water and in waves evolved to the implementation of formal optimization strategies on existing (parent) hull forms to improve both the resistance and propulsion characteristics as well as its dynamic responses in actual seaways. Aiming to reduce operating expenses, the main target is to minimize the fuel consumption in all sailing conditions. Recently, the focus on environmental protection and the reduction of the emission of Green House Gases (GHG) as well as CO_2 formed a strong push towards the optimization of the operation of ships which is feasible mainly via the optimization of their hydrodynamic performance and the improvement of the performance of their main engines. The hull form optimization is based on a variety of hydrodynamic algorithms to evaluate the resistance, propulsion, and the seakeeping characteristics of the ship using potential or viscous flow calculations and it is finally evaluated by model tests.
Prof. Gregory Grigoropoulos

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Message from the Editor-in-Chief

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