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Propulsion of Ships in Waves

Guest Editor:

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Message from the Guest Editor

The study of the propulsive characteristics of ships moving in waves (regular or random seas) is of major importance since it is directly related to the fuel consumption and their overall energy efficiency. For designers, the ultimate goal should be a computational tool that predicts the real situation of a full-scale self-propelled ship. However, this is an extremely complicated task which also requires excessive computing power. This is why, in practice, many simplified methods have been employed, based on empirical methods, lower order computational tools or advanced CFD codes in order to explore issues regarding the engine–propeller–hull interaction. Many of them are based on the analysis of in situ measurements or towing tank experiments. The purpose of this invited Special Issue is to present relevant approaches which exhibit high interest for the ship-building industry, the scientific community and engineers involved in ship operation management.

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Message from the Editor-in-Chief

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