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Ship Hydrodynamics

Guest Editor:

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Message from the Guest Editor

Experimental and computational ship hydrodynamics have developed rapidly over the last ten years. Experimental studies extended their measurements from integral to local flow variables and from captive/semi-captive to free-running self-propelled ships, providing data at different levels for the validation of computational solvers. Additionally, computational tools moved from inviscid flow and system-based solvers to complete physics-based methods, based on the Navier–Stokes equations. Investigations on nontraditional computational techniques have also recently been initiated. Open source codes have accelerated these developments, and a fully simulation-based design seems more feasible than ever. The advancements of HPC (High-Performance Computing) have enabled computational tools to investigate hydrophysics at multiscales by utilizing thousands of cores. Studies have been conducted on a wide range of topics, including bubbly wake flow, propulsion and cavitation, fluid–body dynamic interaction, hydroelasticity, intact and damaged stability, deterministic and scholastic optimization, extreme events, uncertainty quantification, and verification and validation.

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Message from the Editor-in-Chief

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