

CALL FOR PAPERS

NAŠE MORE – special issue 2024 HYDRODYNAMIC AND CONTROL DESIGN OF MARINE ROBOTS AND SHIPS

Dear Colleagues,

With the new IMO requirements and the upcoming Industry 4.0 revolution, the increasing global demands for fast and efficient maritime transport, energy and pollution reduction, and safety improvement have led to the technological advancements in ships and marine robots. Besides these requirements, there are several challenges, such as unpredictable hydrodynamic disturbances like the sea current and wave loads during the operation of ships and marine robots, and the uncertain model for designing typical control systems. Currently, many researchers have investigated novel hydrodynamic and control solutions to meet these requirements and resolve these challenges.

In view of these advances, the Guest Editor, Prof. Gong Xiang, along with Guest Editor, Prof. Henry Kang Hooi-Siang, invite researchers, academics, and industry representatives to share their new findings in a Special Issue entitled “Hydrodynamic and control design of marine robots and ships”. Papers are invited on topics including but not limited to:

1. Hydrodynamic optimization design of Marine robots and ships
2. CFD simulations on hydrodynamic performance: resistance, seakeeping and maneuvering, etc .
3. Hydrodynamic design and performance analysis of propulsion systems such as duct propellers, shaftless propellers, water jets, etc
4. Measurements and experiments on hydrodynamics of surface vessels and underwater vehicles
5. Path following and track control of under-actuated marine robots;
6. Thrust distribution, dynamic position and optimal control of over-actuated marine robots;
7. Advanced control techniques for surface vessels and underwater vehicles;
8. Coupled dynamics and control of the marine robots and manipulator system

GUEST EDITORS:

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Interests: hydrodynamics, cable dynamics, CFD, ship maneuvering

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Interests: Marine Sustainability, Marine Structures, Fluid-Structure Interaction

Informal enquiries can be made to the guest editors.

MANUSCRIPT SUBMISSION INFORMATION:

The paper should be prepared according to the Instructions for authors <https://www.nasemore.com/instructions-for-authors/> . Manuscripts should be submitted to the address of the journal: nasemore@unidu.hr

Deadline for manuscript submission: **April 1, 2024**