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Special Issue on Advanced Numerical Methods and Applications in Marine Hydrodynamics

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ASME Journal of Offshore Mechanics and Arctic Engineering

Special Issue on Advanced Numerical Methods and Applications in Marine Hydrodynamics

There is an ever-increasing interest to analyze problems related to the dynamics of fluids and their interactions with fixed or floating offshore structures. Continued technological advances in computer power have enabled the development of novel numerical methods and their applications to analysis and engineering design; this has improved our understanding of many complex problems that were unsolved before. The increasing demands for harnessing marine renewable energy, and the challenges from more extreme weather due to climate change add difficulties and opportunities to this field. This Special Issue aims to highlight recent efforts in the development of advanced numerical methods as well as their applications to marine hydrodynamics for a wide range of applications.

Topic Areas

State-of-the-art numerical methods and their applications that are of greatest interest include, but are not limited to, the following areas:

- Marine hydrodynamics
- Fluid-structure interaction
- Offshore wind energy
- Wave energy
- Tidal energy
- Very large floating structures
- Extreme wave modeling
- Turbulence modeling
- Vortex- or flow-induced vibration
- Autonomous underwater vehicle hydrodynamics and maneuvering

Publication Target Dates

Paper submission deadline	March 31, 2022
Initial review completed	June 30, 2022
Special Issue publication date	October 2022

Submission Instructions

Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the [ASME Journal of Offshore Mechanics and Arctic Engineering](#) and then select the Special Issue **Advanced Numerical Methods and Applications in Marine Hydrodynamics**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue. Early submission is highly encouraged.

Guest Editors

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