

## Special Issue

# Numerical Simulation of Fluid-Structure Interactions by CFD

### Message from the Guest Editor

In recent years, the study of fluid–structure interactions (FSIs) has received increasing attention in various engineering fields, including ocean engineering. Numerical simulation has become a powerful and cost-effective tool for investigating ocean fluid–structure interaction (OFSI) problems. Simulations of wave motion, wave-induced flow velocity fields, energy transport and the stresses exerted on fixed or floating structures are the basis of the design and verification of engineering works such as offshore oil platforms, wave energy converters, floating dams or coastal defense structures. This Special Issue focuses on the use of computational fluid dynamics (CFD) to simulate OFSI problems. CFD-based numerical simulations can provide valuable insights into the underlying flow physics and performance of different types of offshore structures under various ocean wave conditions.

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### Guest Editor

Dr. Giovanni Cannata

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### Deadline for manuscript submissions

closed (1 June 2024)



## Journal of Marine Science and Engineering

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

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