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 costeffective 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, CFDbased numerical simulations can provide valuable insights into the underlying flow physics and performance of different types of offshore structures under various ocean wave conditions.

Guest Editor

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Editor-in-Chief

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