Special Issue

Advanced Studies in Offshore Geotechnics

Message from the Guest Editor

Key topics covered in this Special Issue include offshore foundation engineering, with a focus on novel foundation systems such as suction caissons, monopiles, and hybrid foundations. Contributions explore the geotechnical behavior of seabed sediments, including soil/rock–structure interaction under complex loading conditions, cyclic and dynamic soil/rock responses, and advanced constitutive modeling for offshore applications. Advancements in numerical and physical modeling techniques are also emphasized, including the application of finite element methods, machine learning, and centrifuge model testing for simulating offshore geotechnical problems. In addition, this Special Issue addresses the geohazard assessment, covering submarine landslides, soil liquefaction, and the impact of extreme environmental conditions on foundation stability.

- offshore geotechnics
- seabed soil/rock–structure interaction
- offshore foundation engineering
- dynamic and cyclic soil/rock behavior
- geohazard assessment
- numerical and physical modeling
- submarine landslides and liquefaction
- floating offshore wind turbines
- sustainable offshore development
- carbon storage and deep-sea mining

Guest Editor

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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