

Special Issue

Ocean Renewable Energy Systems (ORES); Wave-Structure Interaction Analysis and Design Methods

Message from the Guest Editors

Ocean Renewable Energy Systems (ORES) are at a critical crossroad; Offshore Wind Turbines (OWTs) have proven that may lead the energy outlook in years to come and Wave Energy Converters (WECs) are in the critical phase of their reconsideration and redesign. In this context, this Special Issue invites original scientific contributions on topics including, without being limited to: Wave-structure interaction and numerical analysis of Ocean Renewable Energy Systems (Offshore Wind Turbines; Wave Energy Converters; combined concepts; multi-purpose ORES). Numerical modelling and design methods for OWTs farms and WECs arrays. Co-located OWTs farms and WECs arrays Near-field (e.g. hydrodynamic, aerodynamic) and far-field (e.g. environmental, coastal erosion) interaction effects of farms and arrays of ORES. Numerical model and design methods upgrade with the use of physical model experiments, real field data and artificial intelligence. Risk, reliability, residual strength and resilience of ORES and their structural components. Numerical methods for Life Cycle Analysis of ORES. Structural Health Monitoring methods for safety and life extension of ORES.

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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