

## Special Issue

# Optimization and Energy Maximizing Control Systems for Wave Energy Converters II

### Message from the Guest Editors

Wave energy is now an established research field, and the scientific community focuses on reducing the capital cost associated with the design and construction of wave energy converters (WECs) while maximizing their performance and durability in real working conditions. Research challenges on WECs contemplate the application of well-known control and optimization techniques to highly nonlinear and multiple degrees of freedom dynamic systems. We would like to invite papers on the topic of “Optimization and Energy-Maximizing Control Systems for Wave Energy Converters II”. This includes but is not limited to optimal design and control-informed optimization algorithms applied to WEC systems and array, model-based and data-driven novel energy-maximizing control strategies for WECs, numerical results and experimental tests proving the achievements of specific control architectures, specific challenges of the WEC application case, including strong nonlinearities (nonideal and saturated power take-off, hard-stop mechanisms), extreme condition handling (large motions and forces), and accurate estimation and forecasting of WEC input and states.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 November 2023)



## 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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