

## Special Issue

# Nonlinear Numerical Modelling of Wave Energy Converters

### Message from the Guest Editor

The performance of wave energy converters is traditionally estimated using numerical models based on linear radiation/diffraction theory. However, over the last couple of years, we have seen an increase in the use of high-fidelity nonlinear hydrodynamic modelling for wave energy converters. The nonlinear approach is, of course, used in order to overcome the shortcomings of the small-wave-amplitude/small-motion assumptions underlying the linear approach. To include nonlinearity in the modelling is especially important for survival cases including steep and breaking waves and large amplitude motions, as well as the often highly nonlinear response in the resonance region of wave energy converter (WEC). We would like to invite papers dealing with numerical method development especially of nonlinear models for wave energy. This includes, but is not limited to, computational fluid dynamics (CFD) as well as medium fidelity models. We are also interested in studies covering applications of nonlinear models in the wave energy field, and papers investigating nonlinear and viscous effects on WECs. Additionally, experimental papers looking into nonlinear effects are highly encouraged.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 November 2019)



## Journal of Marine Science and Engineering

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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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### Editor-in-Chief

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