Special Issue

Novel Techniques and Instruments for the Estimation of the Sea-Wave Directional Spectrum

Message from the Guest Editors

In non-trivial sea states, wind-generated wave energy may propagate differently than the wind direction. In the past, to obtain information on wave directionality, extensive data acquisition techniques were developed through the application of different types of instruments (e.g., buoys and wave probe arrays). Each of these acquisition techniques has both merits and limitations, and they have been used to obtain important information on wind waves. Their directionality is indeed extremely significant for the design of marine systems. Today, the technological advancement of instruments such as radars, stereo-imaging, polarimetric cameras, and others allows the direct analysis of oceanic waves (from satellites, platforms, or vessels) in both their spatial and temporal aspects. As a consequence, the wave frequency–wavenumber relationship can now be studied without decoupling, opening new, interesting research opportunities.

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Deadline for manuscript submissions

closed (15 January 2022)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/91460

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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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