Special Issue

Wave Transformation in the Nearshore and the Formation of Surfable Waves

Message from the Guest Editor

This special issue aims to publish innovative advancements in the observation, physical and numerical modeling of swell propagation, wave transformation, and nearshore wave dynamics. The topics of interest include, but are not limited to, the following areas:

- Innovative observational techniques such as remote sensing, in situ measurements, and
- autonomous sensing platforms for capturing swell and surf zone dynamics.
- Physical modelling experiments and laboratory studies that simulate wave transformation processes, including refraction, diffraction, overtopping, and breaking.
- Numerical modelling of swell propagation from offshore sources to the surf zone and surface zone wave dynamics.
- Studies on the impact of bathymetry, coastal morphology, and tides on wave focusing and the formation of optimal surf conditions.
- Analysis of wave breaking, turbulence, and energy dissipation mechanisms within the surf zone.
- Numerical modelling in wave prediction and surf forecasting.
- Research and experimental studies related to artificial surfing reefs.
- Hydrodynamics around artificial surfing reefs.

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.

Editor-in-Chief

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