# Special Issue

## Advances in Nearshore Hydrodynamics Research

### Message from the Guest Editor

In the shallow coastal region, fluid flows often exhibit complicated-looking behaviors strongly connected to turbulent effects from wave breaking, pycnocline and thermocline, wave-structure interaction, wave-current interaction. Resulting complex motion of waves typically spawns issues in coastal hazards and environmental impacts; a notable example is huge turbulent whirlpool generated inside the harbor during the tsunami event. As prediction of such complex phenomena requires dedicated considerations of the controlling physics, unveiling them is still recognized as important and so is a popular topic in coastal and ocean engineering. Therefore, the recent research is still leaning towards a better understanding of coastal hydrodynamic processes which tend to be highly complex and turbulence-dominant. In this Special Issue, we invite high-quality research papers on various topics related to complex nearshore hydrodynamics, including but not limited to: Multi-scale, multi-physics phenomena; Advanced numerical/physical modelling; Sediment transport mechanism; Coastal hazards by extreme events; Nearshore turbulent mixing; Pollutant advection-dispersion; infra-gravity waves.

### Guest Editor

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### Deadline for manuscript submissions

closed (25 September 2020)

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# About the Journal

## 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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