



## Advances in Nearshore Hydrodynamics Research

Guest Editor:

**Dr. Sangyoung Son**

School of Civil, Environmental,  
and Architectural Engineering,  
Korea University, 145 Anam-ro,  
Seongbuk-gu, Seoul 02841, Korea

Deadline for manuscript  
submissions:

**closed (25 September 2020)**

### 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.





## Editor-in-Chief

**Prof. Dr. Charitha Pattiaratchi**

School of Engineering, The UWA  
Oceans Institute, The University  
of Western Australia, Perth, WA  
6009, Australia

## Message from the Editor-in-Chief

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*Journal of Marine Science and  
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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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