

## Special Issue

# Ocean Climate: Deep Learning, Statistical Methods and Dynamical Modeling

### Message from the Guest Editors

Nowadays, MDL is playing increasingly important roles in almost every field. Particularly, in fields such as marine science and engineering, which have a strong applied nature, MDL is a very powerful tool, and its development and application have become hot topics. On the one hand, the dynamical model-based reanalysis extends data sources for MDL. On the other hand, high-precision dynamical modeling needs MDL to break through the bottlenecks brought by nonlinear feedback in detailed scale interactions. In this Special Issue, we call for papers that deal with recent advances in machine deep learning, statistical methods and dynamical modeling associated with research and development in marine science and engineering research and applications, including advanced machine learning algorithms, new ideas in statistical methods and dynamical models, data assimilation, MDL-induced physical parameterization, MDL-induced climate and chemistry modeling, etc.

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### Guest Editors

Prof. Dr. Shaoqing Zhang

Prof. Dr. Yuxin Zhao

Prof. Dr. Junyu Dong

Dr. Hao Zuo

Dr. Chang Liu

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### Deadline for manuscript submissions

20 March 2026



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
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