

## Special Issue

# Marine Geophysical Exploration in the Era of Artificial Intelligence: Data, Mechanisms, and Future Trends

### Message from the Guest Editors

The field of marine geophysical exploration has been undergoing a profound transformation driven by artificial intelligence. With the robust rise of a new wave of technological revolution, artificial intelligence has injected fresh momentum into marine science. This Special Issue “Marine Geophysical Exploration in the Era of Artificial Intelligence: Data, Mechanisms, and Future Trends”, aims to systematically present innovative applications and cutting-edge explorations of artificial intelligence technologies across the entire chain of marine geophysical exploration. This Special Issue focuses on (but is not limited to) the following areas:

- **Intelligent Data Acquisition and Processing**
- **Intelligent Marine Seismic Imaging and Inversion**
- **Intelligent Marine Environmental Monitoring**
- **Intelligent Identification of Submarine Geology and Resources**

At the same time, we welcome submissions on innovations in conventional marine geophysical exploration methods, particularly research results demonstrating significant breakthroughs in data acquisition techniques, forward modeling algorithms, and the construction of inversion theory.

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### Guest Editors

Dr. Guoxin Chen

Ocean College, Zhejiang University, Zhoushan, China

Prof. Dr. Chun-Feng Li

Ocean College, Zhejiang University, Zhoushan, China

Dr. Yangting Liu

First Institute of Oceanography, Ministry of Natural Resources, Qingdao, China

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### Deadline for manuscript submissions

10 September 2026



## Journal of Marine Science and Engineering

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by MDPI

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*Journal of Marine Science and Engineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jmse@mdpi.com](mailto:jmse@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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

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indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).