

## Special Issue

# Passive Acoustics to Study Marine Ecosystems—2nd Edition

### Message from the Guest Editor

Passive acoustic monitoring is becoming an important tool to study the ecosystem thanks to technological improvements. Analysis of long acoustic data series is a challenge, and each ecosystem has its own soundscape signature changing with time, for example, following the day-night cycle or alternation of seasons, and along the multidimensional space (vertically, horizontally). Some dominant physical and biological components of the soundscape are known, but we need to better understand the acoustic ecosystem, collecting more data and improving the automatic analysis, and also applying data analysis techniques already used in other fields over bioacoustics. Rapid reviewing and publication turnaround for high-quality contributions is ensured, with scope relating (though not limited) to:

- Soundscape temporal and spatial patterns;
- Soniferous species presence and abundance;
- Impact of noise on the soundscape;
- Masking effect;
- Physical, biological, and human drivers of the soundscape;
- Climate change, i.e., ice calving and ice melting impact on the soundscape;
- Signal detection techniques;
- New techniques of long time series recordings and analysis.

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### Guest Editor

Dr. Giuseppe Buscaino

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### Deadline for manuscript submissions

closed (1 March 2025)



## Journal of Marine Science and Engineering

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an Open Access Journal  
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Impact Factor 2.8  
CiteScore 5.0

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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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