

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.

Guest Editor

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Deadline for manuscript submissions

closed (1 March 2025)



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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.

Editor-in-Chief

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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).