

Special Issue

Underwater Acoustics and Digital Signal Processing

Message from the Guest Editors

We invite you to take part in the Special Issue “Underwater Acoustics and Digital Signal Processing” for the *Journal of Marine Science and Engineering*. This Special Issue is intended to provide the results of original research and reviews of advances in signal processing methods used in underwater acoustics. Both theoretical and experimental papers are encouraged. This Special Issue’s objective is to present theoretical and experimental research. This Special Issue includes, but is not limited to, the following research areas:

- holography signal processing;
- matched field processing (MFP);
- linear and nonlinear time-warping;
- physics-based signal processing;
- adaptive signal processing;
- signal processing for autonomous underwater vehicles (AUVs);
- signal processing for marine mammals;
- active and passive sonar signal processing;
- signal processing in a non-stationary environment;
- signal processing for scalar sensors, vector sensors, antennas;
- signal processing for detection, localization and classification;
- underwater acoustic communications;
- experimental data signal processing results;
- numerical modelling for signal processing.

Guest Editors

Dr. Sergey Pereselkov
Prof. Dr. Matthias Ehrhardt
Dr. Pavel Petrov

Deadline for manuscript submissions

closed (25 October 2023)



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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

mdpi.com/journal/jmse





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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

Prof. Dr. Charitha Pattiaratchi

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

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Journal Rank:

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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).