# Special Issue

## Application of Deep Learning in Underwater Image Processing —2nd Edition

### Message from the Guest Editors

Underwater image processing is one of the key technologies driving advancements in fields such as marine biology, oceanography, underwater exploration, and many more. In recent years, deep learning technologies have emerged as a game-changer in addressing these challenges and improving underwater image quality. These technologies provide new opportunities and insights, enhancing their applicability and reliability in real-world scenarios. The scope of this Special Issue is to cover all aspects that relate to underwater image processing. Topics of interest include, but are not limited to, the following:

- Underwater image enhancement and restoration;
- Underwater image denoising;
- Underwater object detection and classification;
- Underwater object tracking;
- Underwater object recognition;
- Underwater semantic segmentation;
- Underwater scene understanding;
- Underwater image depth estimation;
- Underwater 3D modeling;
- Underwater image synthesis and generation;
- Generative AI for underwater image processing;
- Underwater image quality assessment methods, including full-reference assessment metrics, non-reference assessment metrics, etc.

### Guest Editors

Prof. Dr. Chia-Hung Yeh
Prof. Dr. Chua-Chin Wang
Dr. Guo-Shiang Lin

### Deadline for manuscript submissions

20 December 2026

**Journal of Marine Science and Engineering**

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 5.6

mdpi.com/si/245053

*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

# Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 5.6

mdpi.com/journal/jmse

MDPI

# 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. João Miguel Dias
Physics Department, CESAM, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal

## Author Benefits

### High Visibility:

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

### Journal Rank:

JCR - Q2 (Oceanography) / CiteScore - Q1 (Ocean Engineering)

### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2026).