

## Special Issue

# Research and Technology for Arctic Coastal Hazards and Risks

### Message from the Guest Editor

This *JMSE* Special Issue, "Research and Technology for Arctic Coastal Hazards and Risks", covers a broad range of research topics, including the development of technologies for predicting and mitigating coastal hazards including coastal erosion and flooding. For example, papers addressing machine learning, semi-empirical, and process-based approaches to coastal erosion modeling and forecasting are welcome, as are papers addressing technologies for mitigating erosion, including conventional and nature-based technologies. In addition, the Arctic is very vulnerable to coastal flooding, as the 2022 extratropical storm Merbok demonstrated, and that vulnerability is expected to increase with sea level rise and local subsidence. Hence, papers addressing Arctic coastal flooding and flood mitigation are welcome. Finally, we are interested in papers addressing the coastal risk or cost associated with these coastal hazards. Knowing the scale of risk posed to communities and coastal infrastructure will allow us to better plan the development of technologies for mitigating that risk.

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### Guest Editor

Prof. Dr. Tom Ravens

Civil Engineering Department, University of Alaska Anchorage,  
Anchorage, AK, USA

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### Deadline for manuscript submissions

closed (25 May 2024)



## Journal of Marine Science and Engineering

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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

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#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

#### 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).