

## Special Issue

# The State of the Art of Marine Risers and Pipelines

### Message from the Guest Editors

Marine risers and pipelines are critical components in marine resource utilization, transporting oil, gas, natural gas hydrate or mineral particles. Risers connect the subsea wellhead or manifold to the surface platform, experiencing the combined action of internal conveyed fluids and external wave and current. Due to the potential fatigue damage caused by flow-induced vibration, a further understanding of marine risers and pipelines in such complicated conditions is important in predicting service life and conducting operation optimism. Therefore, this Special Issue focuses on the state of the art of marine risers and pipelines. We seek contributions from authors that include, but are not limited to, the following areas:

- (1) Multiphase flow-induced vibration of marine risers;
- (2) Vortex-induced vibration of risers;
- (3) Multiphase flow-induced vibration of marine pipelines;
- (4) Vortex-induced vibration of pipelines;
- (5) Soil–pipeline interaction;
- (6) Flow control and vibration suppression of risers and pipelines;
- (7) Hydrodynamic analysis;
- (8) Fatigue life prediction;
- (9) Optimize layout of risers;
- (10) Intelligent monitoring and maintenance.

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### Guest Editors

Prof. Dr. Hongjun Zhu  
Prof. Dr. Wanhai Xu  
Prof. Dr. Jiasong Wang

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### Deadline for manuscript submissions

closed (30 December 2024)



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
CiteScore 5.0



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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:

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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).