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.

Guest Editors

Prof. Dr. Hongjun Zhu

Prof. Dr. Wanhai Xu

Prof. Dr. Jiasong Wang

Deadline for manuscript submissions

closed (30 December 2024)

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Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

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