



Fluid-Structure Interaction (FSI) Issues in Floating Offshore Wind Turbines

Guest Editors:

Dr. Decao Yin

SINTEF Ocean, Trondheim,
Norway

Prof. Dr. Bernt J. Leira

Department of Marine
Technology, Norwegian
University of Science and
Technology (NTNU), Trondheim,
Norway

Deadline for manuscript
submissions:

closed (25 September 2024)

Message from the Guest Editors

Dear Colleagues,

The offshore wind industry is expected to expand exponentially in the coming decades; as such, research and innovation are needed to allow for the safe, cost-effective, and sustainable design of floating offshore wind turbines (FOWTs). A significant challenge is the fluid-structure interaction (FSI) issue associated with the various components of FOWTs, such as blades, floaters, and power cables.

This Special Issue focuses on FSI problems such as vortex-induced vibrations (VIV) and vortex-induced motions (VIM), both experimental and numerical, addressing critical challenges faced by the design, operation and decommissioning of floating offshore wind turbines.

Dr. Decao Yin
Prof. Dr. Bernt J. Leira
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA
Oceans Institute, The University
of Western Australia, Perth, WA
6009, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI