



Oscillations in Offshore Wind Turbines

Guest Editors:

Dr. Jesus Enrique Sierra-Garcia

Electromechanical Department,
University of Burgos, Burgos,
Spain

Dr. Fares M'zoughi

Automatic Control Group—ACG,
Institute of Research and
Development of Processes—IIDP,
Department of Automatic Control
and Systems Engineering, Faculty
of Engineering of Bilbao—
EIB/BIE, University of the Basque
Country—UPV/EHU, Po Rafael
Moreno no3, 48013 Bilbao, Spain

Deadline for manuscript
submissions:

closed (1 January 2024)

Message from the Guest Editors

The growing demand for energy in which the world is currently immersed has led to the search for new energy sources that are clean and do not generate carbon residues. Among them, wind, wave and tidal energies emerge as promising and efficient alternatives. Wind turbines can be on land or have offshore foundations. Offshore wind turbines have a number of advantages over land-based turbines, such as no space limitations and more limited impact on the ecosystem. More recently, near-shore offshore wind turbines have migrated to deep waters, with floating platforms being a promising, cost effective and feasible solution for many countries.

However, they operate in hard ambient conditions that limit their operation and compromise their integrity. In addition to adverse weather conditions, in deep waters, they are subjected to strong waves and sea currents that increase the oscillations and vibrations in their structure, thus, reducing performance and life span. Therefore, the research applied to improve the knowledge about the oscillations in offshore systems, as well as the development of techniques to control them and reduce their effects, would be very beneficial.





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (*Civil and Structural Engineering*)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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