Special Issue

Data-Driven Modeling for Offshore Energy Systems

Message from the Guest Editor

The advancement of deep learning and its increased implementation in various fields of engineering and science, partially due to the accessibility of high computational power and big data management systems, has also broadened the range of possibilities for offshore energy system structural analysis, performance modeling, active and passive control design, and power output optimization. The aim of this Special Issue is to compile data-driven and physics-informed machine learning approaches to study forward and inverse problems involved in offshore energy systems. This includes, but is not limited to, physics-informed dynamic modeling of offshore wind turbines and wave energy converters, power generation modeling and power optimization, data-driven modeling and optimization of offshore energy system arrays, implementation of neural networks and machine learning techniques for control system design, and data-driven approaches for fluid–structure interaction simulations for offshore energy systems.

Guest Editor

Dr. Masoud Masoumi
Department of Mechanical Engineering, Manhattan College, Riverdale, NY 10471, USA

Deadline for manuscript submissions

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Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse

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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.

Editor-in-Chief

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

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