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Data-Driven Modeling for Offshore Energy Systems

Guest Editor:

Dr. Masoud Masoumi

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Deadline for manuscript submissions: closed (20 December 2023) Dear Colleagues,

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, physicsinformed dynamic modeling of offshore wind turbines and wave energy converters, power generation modeling and data-driven modeling power optimization, and of offshore energy optimization system arravs. 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.



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Message from the Editor-in-Chief

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