Special Issue

Aerospace Technology for Offshore Wind Energy

Message from the Guest Editors

The last IPCC reports show that a rapid, radical change of direction is necessary to avoid the catastrophic consequences of climate change. Photovoltaic wind energy is considered the most mature solution with sufficient potential. further reduction in the Levelized Cost Of Energy (especially for the floating turbines) and improved capacity factor are necessary to meet the expected growth trend. The fields of study most involved are: structural dynamics, aerodynamics, fluid dynamics, materials, manufacturing, maintenance, control, stability and aeroacoustics. Since the aerospace community has widely studied these fields, the scope of this Special Issue is to transfer your knowledge into the wind energy sector, achieving a virtuous cross-fertilization between the two research areas.

Applications may range from, but are not limited to, new blade structural design and manufacturing processes, augmentation systems for blade aerodynamics, advanced control algorithms for power production and vibration control, advanced materials, innovative wind turbine and farm design, interactional aerodynamic modelling of wind farms and among farms, and innovative platforms for offshore wind turbines.

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Deadline for manuscript submissions

closed (31 October 2023)

Aerospace

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Impact Factor 2.2
CiteScore 4.0

mdpi.com/si/162678

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You are welcome to contribute a research article or a comprehensive review for consideration and publication in *Aerospace* (ISSN 2226-4310), an on-line, open access journal.
Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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