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Wind Turbine Performance: Design, Evaluation and Testing

Guest Editor:

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Deadline for manuscript submissions:
closed (15 December 2024)

Message from the Guest Editor

This Special issue is discuss how to improve the performance of the new generation of wind turbines from different points of view including design, testing and assessment of performance to overcome any potential problems. The purpose is to gather and publish the new research and development authored by worldwide researchers working on improving wind turbines in all aspects. The publications will impact academic, industrial and political stakeholders.

Topics of interest include, but are not limited to, the following:

- Design of wind turbine components such as blades, rotors, towers, etc.;
- Design specifications of different scale wind turbines including large-scale, medium-scale, small-scale and micro-scale;
- Optimization techniques in design;
- Wind tunnel testing, full-scale field testing and numerical simulations;
- Design and performance assessment including but not limited to algorithmic techniques such as machine learning and neural artificial networks;
- Data-driven monitoring and evaluation;
- Statistical approaches and risk assessments;
- Wind turbines' performance improvement.

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Message from the Editor-in-Chief

Wind is an open access journal dedicated to disseminating rigorously peer-reviewed publications to advance knowledge and technology in wind research-related areas such as wind engineering, wind energy and wind environment. The journal brings new opportunities for actively disseminating fresh, innovative and multidisciplinary wind-related concepts and applications. It covers aspects related but not limited to meteorology; civil, mechanical, aeronautical and electrical engineering; risk analysis and economic, social and environmental impacts.

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