Special Issue

Advances and Challenges in Wind Turbine Mechanics, 2nd Edition

Message from the Guest Editors

Renewable energy sources have played a significant role in global electricity production over time, with wind turbine technology being one of the most intensively developed forms. To address challenges encountered in this field, we introduce this Special Issue entitled "Advances and Challenges in Wind Turbine Mechanics, 2nd Edition".

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

- Innovative wind turbine design shapes;
- Wind tunnel and field testing of turbines;
- Numerical simulations;
- Statistical approaches and risk assessments;
- Turbine selection for specific wind conditions;
- Assessment of spot energy potential;
- Design specifications for different scale turbines, including large-scale, medium-scale, small-scale, and micro-scale;
- Optimization techniques in design;
- Performance assessment using algorithmic techniques such as machine learning and neural networks;
- Remote site monitoring and automated evaluation, including hardware and software (ICT, automated report generation, etc.);
- Performance improvement of wind turbines.

Guest Editors

Dr. Małgorzata A. Śmiałek

Dr. Ryszard Szwaba

Dr. Janusz Telega

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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