Special Issue

Wind Turbines and Aerodynamics

Message from the Guest Editor

Wind energy is a key source of electricity generation for changing the energy model, as it is both cleaner and more sustainable. It is a renewable source that contributes the most to reducing dependence on conventional energies and reducing the impact of the energy sector on the environment. Energy is obtained by transforming the kinetic energy of the wind into mechanical energy that can be used to generate electricity. Wind turbines are machines designed for this purpose. Therefore, understanding and optimizing the aerodynamics of wind turbines is essential to improve their efficiency and useful life. This Special Issue aims to reach academics, scientists, and industrial stakeholders interested in the field of wind energy to contribute their achievements to recent advances, especially those related to the aerodynamics of wind turbines. This present Special Issue covers a wide range of topics, including:

- Wind rotors, blades, and mast aerodynamics, aeroelastics, aeroacoustics;
- Wind turbines wakes;
- Wind rotor and blade design;
- Performance, optimization, and control.

Guest Editor

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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

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