



Vibration Control of Wind Turbines

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Message from the Guest Editors

Dear Colleagues,

The cost of electricity generated by wind turbines has begun to approach that produced using conventional resources, such as hydrocarbons. These cost reductions have resulted mainly from the optimization of the turbine erection and performance, and the increase in hub heights and rotor diameters. The steady move towards renewable energy generation has also led to the development of new types of wind turbine, both on and off shore.

The newly developed wind turbines are not without challenges. Whilst designs for conventional turbines are often fatigue-driven, designs for installations on floating platforms or in environments with previously unencountered types of loading, [...]. In most cases, the ULS loading is dynamic. Vibrations in wind turbine systems may also affect their productivity and efficiency, and may reduce the lifetime of their components.

This Special Issue addresses the latest wind turbine vibration control techniques, for all types of wind turbines, subjected to all forms of dynamic loading and placed in all possible environments.

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