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## Recent Challenges of Efficient Control Strategies for High-Performance Wind-Power Generation Systems

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### Message from the Guest Editors

The use of wind energy for electrical power generation shows high potential and is receiving a great deal of interest. At present, the main challenge in wind-power generation systems is to investigate their high-efficiency operation with advanced control strategies.

A typical wind-energy system is composed of blades, an electric generator, a power electronic converter, and a control system. The wind turbine is the component of the wind-energy system that converts the wind's kinetic energy into mechanical energy that can be used to drive an electrical generator. The wind turbine generator converts the output mechanical energy of the wind turbine into electrical power and can be connected either to stand-alone loads or to the utility grid. Over the years, different generator types have been used in wind-energy systems. These include squirrel-cage induction generators, doubly-fed induction generators, and synchronous generators...

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# Special Issue



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## Message from the Editor-in-Chief

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