



Advanced Wind Energy Conversion Systems

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Message from the Guest Editors

Wind power is now a mature technology that is expected to profoundly contribute to the ongoing energy transition and ultimately to the desired decarbonization of the power system. This Special Issue aims at bringing together contributions regarding all aspects relevant to the planning, design, operation, analysis, control, monitoring, and prognosis of Wind Energy Conversion Systems (WECS). The following is a non-exhaustive list of topics that are most welcome.

- Modelling and control of WECS; WECS technology; Virtual power plants and Micro-grids with WECS
- Impact of WECS on power system's stability; Integration in the power system; Power electronics for WECS
- Wind forecast; Economics of WECS; Wind power generation in electricity markets
- WECS aerodynamics; Offshore wind; Structural analysis; Component design
- O&M planning and deployment; Optimization of WECS siting
- Hybrid wind/hydrogen and Micro-grids systems
- Resource assessment; Environmental impacts
- Electrical protections for WECS; Fault detection
- Hybrid wind and other renewable in isolated systems
- Wind energy in urban environment and in developing countries
- Next generation of WECS





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Message from the Editor-in-Chief

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