

Special Issue

Wind Resource Assessment

Message from the Guest Editor

Wind energy is expected to substantially reduce greenhouse gas emissions. In order to exploit the enormous potential of wind energy, it is necessary to find new locations suitable for wind turbine installations. Wind resource assessment is complicated by the intermittent and stochastic nature of the wind. Modeling the wind resources requires mature techniques to handle its great spatiotemporal variability. The topics of interest include but are not limited to:

- Meteorological, geographical, technical, and/or economic wind potential
- Spatial wind resource modeling
- Wind turbine and wind farm siting optimization
- Wind speed distribution fitting
- Wind resource under climate change
- Temporal variability of wind energy
- Possibilities to buffer the volatility of wind energy
- Effects of repowering on wind energy yield
- Development of scenarios to achieve certain wind energy shares
- Greenhouse gas mitigation potential
- Wind shear
- Role of air density in wind energy assessment
- Onshore wind energy
- Offshore wind energy

Guest Editor

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Deadline for manuscript submissions

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