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Condition Monitoring, Fault Diagnosis and Fault-Tolerant Control for Wind Turbines

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Message from the Guest Editors

Dear Colleagues,

Wind turbines are dynamical systems with a high degree of nonlinearity and stochastic inputs, thus indicating many challenges from the modeling point of view. The stochastic nature of wind turbine inputs complicates fault diagnosis of wind turbines. Moreover, fault-tolerant control methods offer sustainable operation over a wider range of conditions than would otherwise be expected.

This Special Issue aims to explore advances and challenges in condition monitoring, fault diagnosis, and fault-tolerant control for wind turbines and other subsystems found on a wind farm.

Topics of interest for publication include, but are not limited to:

- Condition monitoring;
- Fault-tolerant control;
- Fault detection, estimation, and isolation;
- Fault accommodation;
- Observer design;
- Robust control;
- Wind turbines;
- Sensor, actuator, and grid faults;



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Special Issue



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Message from the Editor-in-Chief

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