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Sensors for Wind Turbine Fault Diagnosis and Prognosis

Guest Editor:

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Deadline for manuscript submissions:
closed (20 January 2023)

Message from the Guest Editor

To remain competitive, wind turbines must be reliable machines with efficient and effective maintenance strategies. Thus, it is essential to develop robust and cost-effective prognostic and health management strategies.

On the one hand, wind turbines generate a wealth of SCADA data from a variety of sensors, which can be effectively used to enable fault diagnosis and prognosis strategies.

On the other hand, accurate prognosis and diagnosis of WT failures could rely on purpose-built condition monitoring (CM) systems. Vibration-based condition monitoring is a well-established strategy but it usually relies on high-sampled data (>10 kHz) leading to a large amount of data from a large number of sensors.

This Special Issue invites contributions that address wind turbine fault prognosis and diagnosis. In particular, submitted papers should clearly show novel contributions and innovative applications covering, but not limited to, any of the following topics around wind turbines:

- Sensor selection
- Sensor data processing
- Prognostic and health management
- Fault prognosis
- Fault diagnosis
- SCADA data

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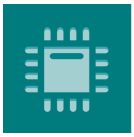
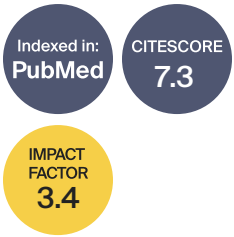
Special Issue

- Data-driven models
- Machine learning
- Deep learning





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Message from the Editor-in-Chief

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