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O&M and Innovative Solutions Bringing Scale and Speed to Wind Energy Engineering

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Message from the Guest Editors

The current issues experienced by manufacturers and operators related to the faster-than-expected degradation of mechanical/structural components of large-scale wind turbines has put at risk significant projects and threatens the slowing down of the development of the entire sector. The main aim of this Special Issue is to put together the most up-to-date knowledge in the area to help mitigate or eliminate the mentioned problems.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Reliability centred maintenance;
- O&M and probabilistic modelling;
- Decision analysis;
- Advanced structural modelling and health monitoring;
- Component optimization and redesign options;
- Innovative designs and concepts (e.g., airborne, multirotor, X rotor);
- Use of emerging technologies (e.g., AI, additive manufacturing, digital twins);
- Load alleviation through control engineering and misalignment couplings.

We look forward to receiving your contributions.



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Special Issue