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

Guest Editors:

Dr. Pablo Jaen Sola
School of Computing, Engineering and the Built Environment, Edinburgh Napier University, 10 Colinton Road, Edinburgh EH10 5DT, UK

Prof. Dr. Erkan Oterkus
Department of Naval Architecture, Ocean and Marine Engineering, University of Strathclyde, 100 Montrose Street, Glasgow G4 0LZ, UK

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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.