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Advanced Online Condition Monitoring for Wind and Marine Energy Conversion Systems

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Deadline for manuscript submissions:

closed (30 December 2022)

Message from the Guest Editors

The subject of interest of this Special Issue is the newly developed advanced techniques for online condition monitoring of wind and marine energy conversion systems. Furthermore, the development of high-fidelity hardware-in-the-loop (H-i-L) facilities with the main aim of real-time evaluation of the developed techniques at low cost is included. The potential papers for publication may cover, but are not limited to, the following topics:

- Wind and marine generators condition monitoring;
- Multistage gearbox and bearing condition monitoring;
- Online condition monitoring in time-varying working conditions;
- Physical modeling of incipient faults in the wind and marine drive-train components;
- Implementation of fault detection, diagnosis and prognosis algorithms in real-time platforms;
- Real-time digital simulation of wind and marine energy conversion systems;
- Hardware-in-the-loop facilities for real-time evaluation of condition monitoring methods.



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Special Issue



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Message from the Editor-in-Chief

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