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Structural Prognostics and Health Management in Power & Energy Systems

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Message from the Guest Editors

In order to ensure the safety and reliability of power and energy systems, including wind turbines, gas/steam turbines, power plants, etc., failure mechanism, reliability assessment, prognostics, and health management (PHM) have becoming recent developments in integrity analysis of these systems. Moreover, due to unexpected ageing related degradations, mechanical properties, microstructures and structural resistance of systems/components often require stochastic considerations related to failure mechanism modeling and analysis. Accordingly, continued improvements on PHM have been possible through advanced signal analysis, degradation assessment, as well as accurate modeling of failure mechanisms by introducing advanced mathematical approaches/tools.

Potential topics include, but are not limited to:

- wind/gas/steam turbine technologies
- failure mechanisms
- PHM
- probabilistic damage tolerance
- structural health monitoring



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Special Issue



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Message from the Editor-in-Chief

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