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Novel Approaches for Fault Diagnostics of Machine Elements

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Message from the Guest Editors

The target of this Special Issue is to compile a comprehensive overview of contemporary and novel approaches to fault diagnostic of machine elements. The focus is on non-destructive measuring, evaluation, and signal processing techniques. In addition, the approaches must, at least, be verified in typical machine element applications. The algorithms need to be validated in experiments to provide results superior to the current state of research.

Keywords

- fault diagnosis
- impedance measurement
- predictive maintenance
- predictive health monitoring
- non-destructive measurement
- feature engineering
- rolling element bearings
- plain and journal bearings
- involute gears
- bevel and worm gear drives
- shiftable and non shiftable clutches
- shaft–hub connections
- sealing components

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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