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Call for papers: Invited Session

Session Chairs

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Session title

**Diagnostics and Prognostics for Electric Machines,
Power Electronics and Drives in Industry 4.0**

Session outline

Electric motors are widely used in various industrial applications. They operate continuously and for long-term periods both at nominal and varying load conditions. As such, it is evident that the occurrence of faults is quite frequent. Additionally, Industry 4.0 refers to a fourth revolution in the manufacturing industry. The overarching goal of Industry 4.0 is to create a smart factory that ties in the industrial Internet of Things (IoT) with predictive maintenance in order to increase efficiency, maximize productivity, and minimize downtime.

Thus, it is of great importance to proceed to electric machines, power electronics, and drives fault diagnostics and prognostics.

Session description

The goal of this issue is to bring researchers together to share their research findings and present attractive perspectives in the fields of fault detection, diagnosis, and prognosis in industrial motors. Prospective authors are invited to submit original and high-quality papers. Topics of interest include but are not limited to the following areas:

- o Condition monitoring, fault diagnosis, and prognosis in industry 4.0
- o Advanced technologies for condition monitoring in industry 4.0
- o Degradation and aging of power electronic converters components
- o Artificial Intelligent in condition monitoring in industry 4.0

