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Design for Reliability in Rotating Electrical Machines: Insulation Degradation and Lifetime Consumption

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

The move towards transportation electrification has made reliability considerations of electrical machines a stringent and predominant requirement. Failures can cause severe downtime and economic losses, as well as endanger human lives. Especially in the automotive and aerospace sectors, electrical machines are required to simultaneously deliver high performance while guaranteeing the appropriate reliability considerations.

This Special Issue will present scientific papers dealing with design for the reliability of electrical machines with special focus on the machine insulation system and the impact of their main ageing/stress factor. Articles on machine design, ageing mechanisms, lifetime degradation modelling, partial discharge detection and modelling, fault-tolerant systems, real-time fault detection, and diagnostics methodologies are invited for submission. Original research and practical contributions as well as surveys and state-of-the-art tutorials are welcome.

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Message from the Editor-in-Chief

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