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Robust Design Optimization of Electrical Machines and Devices

Guest Editors:

Dr. Tamás Orosz

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Prof. Dr. Anton Rassõlkin

Prof. Dr. Miklos Kuczmann

Deadline for manuscript submissions:
closed (27 March 2022)

Message from the Guest Editors

This Special Issue focuses on papers which show how modern artificial intelligence tools can be used for robust design optimization of electric machines and electrical devices, or how these tools can be benchmarked, or the correctness of the result validated.

Topics of interest include but are not limited to:

- System-level modeling, multidomain automatic analysis tools, co-simulations, etc.;
- New numerical and analytical modeling techniques;
- Advanced modeling (electromagnetic, thermal, NVH, mechanical, EMC, insulation, etc.);
- Advanced models for diagnosis;
- Electromagnetic materials, iron losses, additional losses;
- Optimization techniques;
- Advanced testing (multiphysics performances, standard tests, life accelerated testing, etc.);
- Optimization and learning under uncertainty
- Model-based software development and validation of optimization of electrical machines or electric devices;
- Surrogate and reduced-order modeling of electric machines and electric devices.

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Message from the Editor-in-Chief

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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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