Special Issue

Design and Production Process Optimization for High Performance and Energy Efficiency in Electrical Machines

Message from the Guest Editor

Optimization of the design and production process is essential for achieving high performance and energy efficiency in electrical machines. In this context, the design process includes the selection of suitable materials, the optimal design of machine components, and careful consideration of factors such as magnetic losses, thermal management, and electrical insulation. The production process includes the selection of appropriate manufacturing techniques, assembly procedures, and quality control measures. Optimizing these processes can lead to improved performance, reduced energy consumption, and lower production costs. Achieving these goals requires a multidisciplinary approach that includes expertise in electrical engineering, materials science, mechanical engineering, and manufacturing. This Special Issue aims to present the most recent advances in electromagnetic, thermal, and mechanical design and production processes for the development of high-performance and energy-efficient electrical machines.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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