

Special Issue

Electric Machines and Intelligent Control Systems for Energy-Efficient Electromechanical Applications

Message from the Guest Editors

This Special Issue focuses on the latest progress in energy-efficient electrical machines and intelligent control systems that enhance their performance and reliability under diverse operating conditions. The topics of interest include, but are not limited to:

- design, modeling and optimization of electrical machines (motors, generators and drive systems);
- advanced control and diagnostic methods, including those supported by artificial intelligence and machine learning;
- power electronics and converter systems for high-efficiency drives;
- condition monitoring, fault detection and predictive maintenance;
- digital twins, multi-domain modeling and system-level simulation of electromechanical systems;
- integration of electrical machines in renewable energy systems, electric vehicles, robotics and industrial automation;
- interaction of electrical machines with the power grid, particularly in the context of the ongoing energy transition;
- strategies for improving energy efficiency and promoting sustainable development in electromechanical systems.

We warmly invite you to submit your manuscripts.

Guest Editors

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About the Journal

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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