

Special Issue

Data-Enabled Control and Design Solutions for Electric Machines and Power Electronics in Transportation Electrification

Message from the Guest Editors

This Special Issue aims to explore the latest advancements in data-enabled control and design solutions for electric machines and power electronics in transportation electrification. Topics of interest include, but are not limited to:

- Advanced control techniques for electric machines and power electronics, including model predictive control, adaptive control, etc.
- Data-driven design optimization of electric machines and power electronics components for enhanced performance, efficiency, and reliability.
- Integration of artificial intelligence and machine learning algorithms for fault diagnosis, prognostics, and health management of electric machines and power electronics in transportation electrification.
- Design and control of electric machines for special applications in electrical transportation, such as electric buses, e-bikes, railways, and electric aircraft.
- Cybersecurity and communication challenges in data-enabled control and design solutions for electric transportation systems.
- Big data analytics for performance evaluation and energy management in electric transportation systems.

Guest Editors

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Deadline for manuscript submissions

closed (25 March 2025)



Energies

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Impact Factor 3.2
CiteScore 7.3



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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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