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

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Deadline for manuscript submissions:
closed (22 May 2024)

Message from the Guest Editors

Dear Colleagues,

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:

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

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Message from the Editor-in-Chief

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