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Advancements in Control and Diagnostics for Electric Motor Drive Systems

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Message from the Guest Editors

Dear Colleagues,

The objective of this Special Issue is to provide a platform for researchers, engineers, and industry experts to share their latest research and developments in the field of motor drive control and diagnostics. This Special Issue aims to cover novel control strategies, sensor technologies, and diagnostic techniques for electric motor drives, along with their practical applications in various industries.

As a reference, the following are some topics of interest for this Special Issue:

1. Advanced control techniques oriented to maximize the electric drive efficiency;
2. Diagnostic algorithms for early fault detection and predictive maintenance;
3. Adaptive and robust control strategies for dynamic motor drive systems;
4. Sensor fusion and integration for accurate and comprehensive diagnostics;
5. Advancing intelligent motor control and diagnostics through machine learning and data-driven techniques;
6. Trends and emerging technologies for motor drive control and diagnostics;
7. Advanced applications of motor drive control and diagnostics in electric mobility, renewable energy, and marine and aerospace industries.

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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