Special Issue

Advanced Control and Optimization of Electric Drive Systems

Message from the Guest Editors

This Special Issue, titled **"Advanced Control and Optimization of Electric Drive Systems"**, aims to present a collection of cutting-edge research and comprehensive reviews on novel control theories and their practical applications in modern electric drives. Topics include, but are not limited to, theoretical developments and/or experimental validations in the following areas:

- Sensorless control of induction motors;
- Advanced control of open-winding motor drives;
- Model predictive control of permanent magnet synchronous motors;
- Vibration and noise suppression in electric machines;
- Flux-weakening control for extended speed operation;
- Multi-phase motor control and modulation strategies;
- Advanced modulation and control for multi-level converters;
- High-fidelity modeling and parameter identification for control;
- AI-enhanced and data-driven control techniques for electric drives;
- Thermal management and loss optimization through control;
- Fault-tolerant control strategies for improved system reliability.

Guest Editors

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You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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