Special Issue

Modern Control Techniques for Electrical Drives

Message from the Guest Editors

For decades, the world has been facing a transformation of energy use, moving from fossil-based sources to several new ones primarily based on renewables. The electrification of transportation has a critical role in the electrical energy sector, where electric/hybrid electric vehicles (EV/HEV) have been introduced to mitigate air pollution and climate change aiming for a more suitable environment. In order to fulfil the standard for EV/HEV, it is inevitable to apply high-performance control techniques for the electric drives employed in the vehicles. Therefore, this Special Issue aims to allow the research community to contribute to the field control of electric drives by proposing sophisticated control approaches. Major topics include, but are not limited to, the following:

- Advancements in nonlinear control of electric drives;
- Advancements in control of power electronics for integrating distributed energy resources;
- Design, analysis and applications of modern control techniques for electrical machines;
- Optimization algorithms;
- Fault detection and fault-tolerant control of electric drives;
- Control power electronic converter topologies for motor drives.

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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