Special Issue

Applications of Modern Methods to Control of Electric Drives

Message from the Guest Editors

In recent years, many new control strategies have been developed in the control of electrical drives. There are focused on increasing the performance and precision of drives, especially in motion control applications, as well as on the improvement of drive efficiency and reliability. The growing computing power and speed of processors makes it possible to apply ever larger calculations and more complex control algorithms in real time. In this Special Issue, topics of interest include, but are not limited to, the following:

- Soft computing methods in electrical drives: nonlinear control, observers and estimators, application of fuzzy control for modelling and neural networks, robust control, and predictive control;
- Sensor-less control of drives;
- Drives for robotic applications;
- Applications of modern methods in industrial drives;
- Embedded control of drives;
- Load torque emulators;
- Servo drives and advanced motion control;
- Energy optimal control of drives;
- Development and testing of new control strategies;
- Self-diagnostics, fault tolerant control of electrical drives, and predictive maintenance.

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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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