Special Issue

Modern Electrical Drives: Trends, Problems, and Challenges

Message from the Guest Editors

Electrical drives possess a lot of advantages. As compared to other sources, electrical energy is easy to transport and can be environmentally friendly (when from renewable sources). Modern electrical drives convert energy with high efficiency and have flexible control characteristics. They offer a wide range of speed, torque, and power operation. Furthermore, in general, they can serve as an electrical generator. With the growing demand for high-performance electrical drives, the problem of their efficient, robust, precise, and fault-tolerant control is a popular target for many universities and industrial researchers. Accurate control of electrical drives is a crucial point in different types of industry, starting from high-power drives evident in mining and petrochemical areas, through medium (automotive industries, robot arm drives, CNC machines) and small power drives (actuators), ending on MEMS, etc. In this Special Issue, the topics related to trends, problems, and challenges linked to design and exploitation will be presented.

Guest Editors

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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.

Editor-in-Chief

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