Special Issue

Emerging Trends in Closed-Loop Control Systems for Electric Machines and Drives: From Classical Techniques to Smart Solutions

Message from the Guest Editor

The global interest in electrification, driven by efforts to mitigate climate change, has altered how electrical energy is generated, transmitted, and used. This transformation demands the advanced control of voltage, current, and frequency parameters, integrating multiple disciplines, including control theory, power electronics, sensor technology, and electrical machines. Electric machines have become essential components across diverse sectors, from household appliances to industrial processes, renewable energy generation, and electric mobility. This ubiquity, coupled with increasing demands for reliability, efficiency, and performance, has led to numerous technological advances in closed-loop control systems. Emerging technologies in artificial intelligence, digital electronics, and industrial connectivity have further accelerated the evolution of control strategies. This Special Issue aims to explore cutting-edge developments in the closed-loop control of electrical machines, emphasizing both theoretical advances and practical implementations.

Guest Editor

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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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