

Special Issue

Advanced Control of Electrical Drives and Power Converters

Message from the Guest Editors

We are inviting submissions to the Special Issue on Advanced Control of Electrical Drives and Power Converters. Control of electrical drives and power converters faces various challenges, including non-linear characteristics, multiple conflicting objectives, uncertainties and disturbances, high efficiency and power density, avoidance of an encoder and electromagnetic compatibility. To address these challenges, extensive research and innovation are demanded to improve both the performance metrics and efficiency, stability and reliability of electrical drive systems and power converters. It aims to stimulate and compile the latest research on the modelling and advanced control of electrical drives and power converters, emphasizing perspectives on performance metrics improvement of electrical drives and power converters. Topics of interest include, but are not limited to, the following: advanced control strategies for electrical drives and power converters, model predictive control, sensorless and encoderless technologies, data-driven control, model-free predictive control, design of robust observer, artificial intelligence control.

Guest Editors

Prof. Dr. Ralph Kennel

Institute for Electrical Drive Systems and Power Electronics, Technical University of Munich, 80333 Munich, Germany

Dr. Haotian Xie

Quanzhou Institute of Equipment Manufacturing Haixi Institutes, Chinese Academy of Sciences, Jinjiang 362200, China

Deadline for manuscript submissions

closed (30 April 2025)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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