



Control Systems for Power Electronics

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Deadline for manuscript
submissions:

closed (31 October 2024)

Message from the Guest Editor

Dear Colleagues,

We are inviting submissions to the Special Issue on Control Systems for Power Electronics.

Power electronics control faces various challenges, encompassing non-linear characteristics, disturbances, uncertainties, dynamics, and electromagnetic compatibility. Effectively addressing these challenges demands extensive research and innovation to enhance the stability, efficiency, and reliability of power electronics systems.

This Special Issue aims to stimulate and compile the latest research on the design, modeling, analysis, control, and testing of power electronics, emphasizing perspectives on energy efficiency improvement of power electronics. Topics of interest include, but are not limited to: efficient control strategies, harmonic mitigation for loss reduction, intelligent control and optimization, data-driven condition monitoring, and prediction for operations at optimal efficiency, robustness and stability of control systems in power electronic converters, applications of artificial intelligence in industrial electronic systems, modeling and simulation of power electronic systems, and emerging validation methodologies.

Dr. Yunfei Yin
Guest Editor





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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