Special Issue

Power Electronic System Control and Energy Power Conversion Technology

Message from the Guest Editors

With the promotion of the construction of renewable energy power systems, the penetration rate of renewable energy in them is increasing, with the characteristics of electric electronic power system becoming more and more prominent. New power systems with new energy as the main power supply, a large number of new energy units, output volatility, along with an especially lots of power electronic equipment access, will present a series of new characteristics. Moreover, with the current safety and stability control theory based on the traditional synchronous motor system, analysis methods and simulation tools, it is difficult to meet the safety operation requirements of electric power systems. It is urgent to construct basic theory and method systems of electric electronic power system analysis and control with new energy being the main source. To ensure the efficient and stable operation of a renewable power system under a high penetration rate of power electronics, it is vital to study the modeling, simulation and intelligent control technology of power electronic equipment, as well as the interaction technology between equipment and power grid.

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Deadline for manuscript submissions

closed (10 July 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/228234

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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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