Special Issue

The Impact of Technological Innovation on Renewable Energy Production: Simulation and Control of New Energy Power Generation Systems

Message from the Guest Editors

With the energy structure adjustment around the world in recent years, the development of renewable energy has attracted broad attention in many countries. Developing renewable energy can not only improve the environmental problems but also reduce production costs. However, with new energy generations connected to the grid, more challenging control issues will arise, including the control of hybrid power generation systems consisting of multiple new energy sources, the control between renewable energy and grid-connected hybrid energy storage, and the complex energy management control of distributed power generation systems, etc. Therefore, advanced control strategies are expected to improve the stability and sustainability of hybrid power generation systems, and new energy management schemes are needed for grid-connected hybrid energy storage in different modes to improve the power quality characteristics in the AC grid. This Special Issue aims to promote the development and research of control strategies and simulation techniques for new energy power generation systems. We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (1 July 2024)

Sustainability

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Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/159475

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