

Special Issue

Empowering Rural Communities: Control Strategies for a Sustainable and Resilient Energy Future

Message from the Guest Editors

This Special Issue seeks a diverse range of contributions that collectively advance our understanding and empower rural communities through innovative control strategies. **Potential Topics:**

- Advanced control algorithms for distributed energy resources (DERs);
- Automation techniques for enhancing resilience in rural smart grids;
- Optimization models for energy storage systems in rural communities;
- Integrating and managing renewable energy using control and automation methods;
- Demand response strategies and tailored load management through automation for rural areas;
- Applications of artificial intelligence (AI) and machine learning (ML) for automated control in rural energy systems;
- Economic and policy considerations for sustainable rural energy solutions with a focus on control and automation models;
- Case studies on the implementation of smart energy systems with advanced control and automation features in rural communities.

Guest Editors

Dr. Roberto Sacile

Prof. Dr. Mariagrazia Dotoli

Dr. Enrico Zero

Prof. Dr. Raffaele Carli

Deadline for manuscript submissions

closed (25 July 2025)



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Message from the Editor-in-Chief

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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