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Special Issue on Deep Learning-Driven Innovations in Renewable Energy: Enhancing Generation, Optimization, and Long-Term Viability of Sustainable Energy Systems

Call for Papers

In this special issue, " Deep Learning-Driven Innovations in Renewable Energy: Enhancing Generation, Optimization, and Long-Term Viability of Sustainable Energy Systems", we explore into the transformative power of deep learning in revolutionizing renewable energy technologies. The focus is on how artificial intelligence, particularly deep learning, is reshaping the generation, optimization, and long-term sustainability of renewable energy sources. Since the advancement of data collection and processing power at affordable cost, the deep learning has become a primary focus in engineering applications. This issue will present cutting-edge research, case studies, and comprehensive reviews that explore the integration of advanced machine learning techniques with renewable energy systems.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **Deep Learning-Driven Innovations in Renewable Energy: Enhancing Generation, Optimization, and Long-Term Viability of Sustainable Energy Systems**. In this special issue, potential topics include, but are not limited to:

- AI-driven optimization of renewable energy systems for enhanced efficiency and output
- Deep learning applications in predicting and managing renewable energy generation from sources like solar, wind, and hydropower
- Innovative approaches for integrating renewable energy into existing grids
- The role of AI in addressing challenges related to the intermittency and unpredictability of renewable sources

Authors should read over the journal's For Authors carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's Paper Submission System.

Please kindly specify the "**Special Issue**" under your manuscript title. The research field "**Special Issue - *Deep Learning-Driven Innovations in Renewable Energy: Enhancing Generation, Optimization, and Long-Term Viability of Sustainable Energy Systems***" should be selected during your submission.

Special Issue timetable:

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