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AI in Clean Energy Systems

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Message from the Guest Editors

Artificial intelligence (AI) is applied in many fields, including clean energies. AI enables clean energy systems to collect, handle, and process a vast quantity of data. This leads to new technologies and policies that improve the efficiency, distribution, and conversion of clean energy systems. Machine learning as the most common approach in AI and new technologies are developed to study and analyze different aspects of clean energy systems, such as system control, optimization, system design, supply chain design, cost minimization, distribution management, policy design, and socio-economic planning. For example, new forecasting methods provide a better prediction of wind farm renewable energy production, making energy grid design easier. AI has improved automation in clean energy systems. This increases efficiency, particularly in solar and wind energy systems. Cost-saving and power generation increasing are advantages of using AI-based automation systems.

This Special Issue "AI in Clean Energy Systems" will publish new studies using AI approaches to explore, produce, distribute, and consume clean energies, including wind, solar, wave, geothermal, and hydropower.

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Message from the Editor-in-Chief

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