Special Issue

Machine Learning in Renewable Energy Resource Assessment

Message from the Guest Editors

It is difficult to imagine future energy sources that are not renewable. Their use has been increasing not only for national security reasons but also for sustainable environments. Renewable energy assessment has contributed to the advances in the energy integration process among space and energy planning at the local, regional, and national scale. We are pleased to invite you to this Special Issue, which will focus on the application of machine learning (ML) techniques in the assessment of renewable energy resources. It will explore the transformative potential of data-driven methodologies across a wide range of renewable energy technologies, including, but not limited to, solar energy, wind energy, hydrogen and fuel cells, bioenergy, geothermal energy, hydropower, marine energy, and renewable energy integration systems. This Special Issue aims to bridge the gap between ML advancements and renewable energy technologies, offering insights into how AI and machine learning can enhance accuracy, efficiency, and sustainability in resource assessment and energy system planning.

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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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