Special Issue

Fault Detection and Diagnosis of Photovoltaic Systems

Message from the Guest Editor

The cumulative global photovoltaic (PV) capacity has grown exponentially in recent years worldwide and will continue to grow. This fact is mainly due to advances in PV technologies and the significant cost reduction of PV systems. At present, the cost of the PV energy generated is moving toward a grid parity scenario in most countries. Due to these trends, PV energy production will play a key role in global electricity generation and should be one of the global strategies to reduce CO2 emissions and stop climate change. However, there are still significant efforts to be made in terms of the performance and reliability of PV systems. In this context, an important issue in the coming years will be the development of automatic supervision strategies for PV systems in order to achieve higher yields and better performance. Automatic supervision of PV systems is based on an effective and rapid detection of faults present in the PV system together with a correct diagnosis to identify the most probably cause of failures. This Special Issue aims to collect original research or review articles on different PV systems automatic supervision strategies from an applied point of view.

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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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