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Sensing Technologies Applied in Solar Energy and Photovoltaic Systems

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Message from the Guest Editors

Solar energy generation and photovoltaic systems are strongly influenced in their performances and general behavior by a large set of variables from the environmental, physical, and electrical domains. All domains influence and are influenced by human activities, devices, and infrastructures surrounding the PV system. Accurate assessment and forecasting of these variables are key assets in planning, design, management, and optimization of all the applications related to solar energy production. Moreover, knowledge of these variables is required for proper fault detection and diagnosis in several PV applications. This Special Issue will focus on all innovative solutions, from sensing mechanisms to the processing of data, for all quantities and variables influencing the production of energy from photovoltaic conversion. Welcome topics include but are not limited to:

- Sensors and sensing strategies for irradiance, temperature, and other weather-related quantities;
- Sensors and sensing strategies for PV system voltages, currents, energy, power, and other electrically relevant quantities;
- Sensors and sensing strategies for fault detection and diagnosis of PV devices and systems.



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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