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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, 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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Message from the Editor-in-Chief

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