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Digitalization and Advanced Control Techniques of Integrated Photovoltaic Systems

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Deadline for manuscript submissions:
closed (15 February 2023)

Message from the Guest Editors

Dear Colleagues,

The rapid increase in photovoltaic (PV) installation at small and large scales can pose significant technical issues related to the voltage levels and capacity of the network assets in distribution networks. New solutions and digitalization of energy systems, especially PV systems, must be developed to support decision making and improve generation capacity and efficiency.

This Special Issue includes (but not limited to) the following topics:

- State-of-the-art reviews on integrated PV systems and applications.
- On-line and off-line PV system performance forecasting methods.
- PV system sizing and optimization.
- Energy management of PV systems.
- AI applications for PV systems.
- Cybersecurity of Digital PV Systems.
- Power converter topologies for PV systems.
- Grid-following inverter controls.
- Grid monitoring and synchronization techniques for 1ph/3ph PV systems
- Fault ride-through enhancement for grid-tied PV systems
- Integration of storage batteries with PV systems.

Looking forward to your contribution!!!

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Message from the Editor-in-Chief

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