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Design and Analysis of Grid-Connected Photovoltaic Systems

Guest Editor:

Dr. Rosario Carbone
Department of Information Engineering, Infrastructures and Sustainable Energy (D.I.I.E.S.), 89122 Reggio Calabria, Italy

Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editor

This Special Issue solicits papers with original research and studies related to the abovementioned grid-connected PV system topics, including but not limited to the design of residential and larger-scale plants; electricity storage; simulations and performance analyses; algorithms and methods for operational control; analysis of performance variability; mapping of performance differences; solutions for building integration; and new-generation solar trackers.

Topics of interest for publication include but are not limited to:

- Grid integration of photovoltaic systems;
- Design criteria for small-scale and large-scale photovoltaic systems;
- Modeling and simulation tools for photovoltaic systems;
- Analysis and mitigation of partial shading effects on photovoltaic systems;
- Electricity storage systems for photovoltaic applications;
- Design and control of power converters for grid integration of photovoltaic systems;
- Algorithms and control methods for photovoltaic maximum power point trackers;
- Analysis of power quality issues in grid-connected photovoltaic systems;
- Solar forecasting for grid integration of photovoltaic systems.

Prof. Dr. Rosario Carbone
Guest Editor

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Special Issue

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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