



Photovoltaic Generation Systems and Power Conditioning

Guest Editors:

Prof. Dr. Tamás Kerekes

Department of Energy
Technology, Aalborg University,
Pontoppidanstræde 111, 9220
Aalborg-East, Denmark

Dr. Dezso Sera

School of Electrical Engineering
and Robotics, Queensland
University of Technology, George
Street 2, 4059 Brisbane, Australia

Prof. Dr. Gabriele Grandi

Department of Electrical,
Electronic, and Information
Engineering, University of
Bologna, 40136 Bologna, Italy

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Message from the Guest Editors

Dear Colleagues,

Photovoltaic (PV) generation systems have had the highest new installed capacity during the last few years. At the end of 2019, the cumulative installed PV capacity reached 630 GW, with an extra 112 GW prognosed for 2020. Moreover, by 2024, the global cumulative PV capacity is estimated to reach 1500 GW. PV generation is going to become one of the most promising renewable energy sources to cover the increasing needs of electricity due to the incoming spread of transportation electrification.

With this in mind, PV systems are still an important research field, covering topics focusing on diagnostics of PV panels up to the integration issues regarding large-scale PV power plants. This Special Issue, therefore, is more topical than ever.

The topics of interest include but are not limited to:

- Converter topologies for low power photovoltaics;
- Converter topologies for high power photovoltaics;
- Modulation and control techniques;
- PV power plants with energy storage;
- Ancillary services for grid-connected systems;
- Optimization and MPPT techniques.

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Prof. Dr. Gabriele Grandi

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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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