

Special Issue on Power Converters for Photovoltaic System

CALL FOR PAPERS

Solar energy and especially photovoltaic (PV) panels are considered as one of the main solutions to provide the required energy in the world for near future. The energy produced by PV panels is free, clean, and environment-friendly. Thus, many researchers have focused on improving the performance of PV systems and reducing the production and installation costs. This can be provided by increasing the energy production and conversion efficiency for these systems.

Due to nature of PV panels, the voltage produced by this source is a low DC voltage and the voltage should be boosted and converted to AC voltage to be applicable for the users. Furthermore, usually several panels are used in these systems and also an energy backup is necessary especially in stand-alone PV systems during nights or no light conditions. Therefore, various circuits are necessary to connect several parts of these systems which are PV panels, energy storage system, and load. In this regard, we considered a special issue about photovoltaic power generation and conversion. The researchers are invited to submit their researches about PV systems.

Potential topics include but are not limited to the following:

- ▶ PV panels and maximum power point tracking
- ▶ High step-up DC-DC converters
- ▶ Multi-input and multiport converters
- ▶ Bidirectional DC-DC converters for PV systems
- ▶ DC-AC converters for PV systems

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/apec/spgc/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Ehsan Adib, Isfahan University of Technology, Isfahan, Iran
e.adib@cc.iut.ac.ir

Guest Editors

Amin Emrani, Research Scientist at Cornell University, Ithaca, USA
amin.emrani@gmail.com

Mohammad Mahdavi, University of British Columbia, Vancouver, Canada
mahdavi@ece.ubc.ca

Mohammad R. Amini, Islamic Azad University, Isfahan, Iran
mr.amini@khuisf.ac.ir

Hamid Atighechi, BC Hydro Company, Vancouver, Canada
hamid.atighechi@bchydro.com

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