



Global Power, Energy and Communication Conference  
Cappadocia/TURKEY  
June 12-15, 2019

## Special Session on

### Recent Trends in DC-DC Converter for Renewable Energy Applications

Nowadays importance of renewable energies rising drastically. Due to massive usage, fossil fuels e.g. coal, oil, and gas in domestic, industrial and transportation sectors, results in greenhouse effect and environmental pollution that have a huge influence in the world. Due to rising residents and transportation demand, superior industrialization, and modern living standard of the current society, the demand and requirement for energy is increased. Therefore, it is anticipated that renewable energy especially Photovoltaic (PV) and wind energy technology plays a vital role in the future to fulfil the energy demands.

It is expected that DC-DC power converter technology plays an important role to satisfy the load demand and for the use of renewable energy sources. That is why several professional and researcher groups are engaged to design DC-DC power converter circuitry with high efficiency, low cost, fewer components, simple control and highly reliability etc. to fulfill the requirement of medium to high voltage electrical energy system.

DC micro grid energy distribution systems are likely to encourage DC-DC power converter technology for renewable energy applications in terms of inter-connected power converters, isolated, non-isolated, resonant, multiport, multilevel DC-DC converter, high voltage gain, and medium/high voltage DC-DC converter. Furthermore, this will assist the addition of storage systems, which are necessary to manage with the unpredictability of renewable energy supply. The main aim of this special session is to bring the ideas of the professional and research group into common platform, to present recent trends and latest development in DC-DC converter for renewable energy application in terms of design, modeling, power circuitry, control etc.

#### Topics of interest include, but are not limited to:

- New DC-DC configurations for renewable energy applications
- Medium and High Power DC-DC converter
- New advanced control Technique for DC-DC converter
- High voltage gain DC-DC converter
- Switched Inductor and Switched capacitor based DC-DC converters and its modeling
- Isolated and Non-isolated DC-DC converter and its modeling
- Multiport and Multilevel DC-DC converter
- DC-DC current source converter.

Submission Procedure: Same as regular paper submission (all the detail regarding paper submission provided on the conference website <http://gpecom.org>).

#### Special Session Organizer(s):

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**Deadlines of the special session:**

Full paper submission (maximum 6 pages):	<b>February 1, 2019</b>
Notification of acceptance:	<b>April 15, 2019</b>
Final submissions due:	<b>May 1, 2019</b>

All the instructions for paper submission are included at the conference website.

<http://www.gpecom.org/index.php/guidelines/>