



IEEE 2nd Global Power, Energy and Communication Conference
Ephesus, Izmir/TURKEY
October 20-23, 2020

Special Session on Featured Power Electronics in Renewable Energy Systems

Renewable energy systems have become increasingly significant in the past decade due to oil price fluctuations. Renewable energy systems consisting solar and wind energy sources used together to provide increased system efficiency as well as greater balance in energy supply. A renewable power plant presents well operating conditions in the megawatt range. Recently, solar energy has become extremely important in electricity generation methods in many countries in the world due to rapidly falling costs of solar photovoltaic -generated electricity. Wind energy has the least-cost option for new power generating capacity in an increasing number of locations. Electricity generated from renewable energy sources continued to emerge in new markets in the world. At that point, power electronic systems such as converters, batteries, maximum power point trackers and grid connections get interest in many industrial applications. In the present special issue, advanced research studies on above mentioned power systems will be handled in theoretical or experimental basis.

Topics of interest include, but are not limited to:

- Control and Modelling of Renewable Energy Systems,
- Power control methods and algorithms of Renewable Energy Systems,
- Active and reactive power flow control of Renewable Energy Systems,
- Diagnosis, Monitoring and Fault Tolerance Control of Renewable Energy Systems
- Power quality analysis of Renewable Energy Systems,
- Optimization topologies of Renewable Energy Systems,
- Predictive control methods for Renewable Energy Systems,
- Recent Converter Topologies of Renewable Energy Systems
- Advances of AC-DC and DC-DC Converters in Renewable Energy Systems
- Matrix converters for Renewable Energy Systems,
- Static VAR compensators (SVCs),
- New topologies and control of Electrical generators in Renewable Energy Systems

Organizer(s):

Asst. Prof. Altan GENCER

Department of Electrical and Electronic Engineering, Nevsehir H.B.V. University, TURKEY

E-mail: altangencer@gmail.com

Deadlines of the special session:

Full paper submission (maximum 6 pages):	June 1, 2020
Notification of acceptance:	August 15, 2020
Final submissions due:	September 1, 2020

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

<http://www.gpecom.org/2020/index.php/guidelines/>