



IEEE 18th Power Electronics and Motion Control Conference (IEEE – PEMC 2018)
Hungary, Budapest (Europe), August 26-30, 2018

Special Session SS3 on
Modeling and Control of Advanced Power Electronics
for Renewable Energy and Power Quality

Call for Papers

Electrical energy is today omnipresent and its distribution is undergoing a major revolution from a centralized production to a distributed generation. Thus a large number of active sources (wind farms, solar farms, small resources distributed energy, storage systems, flexible charges...) are connected to the power grid through static power converters systems. This imposes new challenges to the stability, quality and resilience of the future power systems. Therefore, it is important to develop new methods and tools for advanced control technologies so that all stakeholders can contribute to the power system regulation in an autonomous and responsible way. This is also true for other energy systems, as in the case of the more electric aircraft, all-electric ships and autonomous vehicles. Control of power electronic converters lies in the heart of these applications for efficient and optimized energy management. This invited session aims to connect the forces of all communities working in the areas of control and power electronics, in academia or industry, to address emerging issues in modelling, control, and power electronic conversion systems.

Topics of interest include, but are not limited to:

Any original contributions related, but not limited, to the following topics are encouraged to be submitted to this open invited track:

- Control of Power Electronic Converters
- Power Quality Control
- Power Factor Control
- Emerging Control Strategies
- Integration of Wind, Solar Energy, Energy Storage
- Control of Multi-converter Systems

Submission procedure: This is the same as for regular papers.

All the instructions for paper submission are included in the conference website: <http://ieee-pemc2018.org>

Organizers:

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Deadlines: Full paper submission (maximum 6 pages): **18 March 2018**
Paper acceptance notification: **8 April 2018**
Final manuscript and early payment: **8 June 2018**