
Second call for special session papers

Future power electronics for resilient high-power-quality grid-connected renewable energy systems: design, modelling and control SS6 at ELECTRIMACS 2019

Special session organizers

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Special session theme

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 special 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

Topics of interest include, but are not limited to:

- 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

IMPORTANT DATES ([see updates on ELECTRIMACS 2019 website](#))

The submission system is open!

Deadline for special session papers	10th December 2018
Notification of acceptance	1st March 2019
Final paper submission and registration	1st April 2019

ELECTRIMACS 2019 PUBLICATIONS ([see updates on ELECTRIMACS 2019 website](#))

- A special issue of MATCOM – Transactions of IMACS Mathematics and Computers in Simulation (Elsevier journal, SCOPUS and WOS indexed)
- A Springer book in the series Lecture Notes in Electrical Engineering. Each paper, appearing as a book chapter, will be also online available (with DOI). The book will be sent for indexing to the major scientific databases, such as Scopus and WoS.