









Mandatory free registration before September 22th, to website https://www.eventbrite.fr/e/billets-jsn-micro-reseaux-2017-33620781663



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To the purpose to adress the technical constraints of interfacing renewable sources with the public electricity network, AC or DC micro-smart grid composed of a multi-source system an related controller/supervisor represent an integrated solution. Whether they are integrated into the distribution system or the transmission network, which can be AC or DC, HV or LV, high power or small power, the micro-smart grid or the componing clusters require a hierarchical approach. It will be composed by a systemic approach studying the interactions among the subsystems, with to each operation mode adapted control laws, and a specific approach related to the intermittent aspects of the system.

The Scientific Workshop on micro-smart grid is organized by the GT Microgrids (GDR SEEDS) and the GT RSEI (GDR MACS) in collaboration with the ITE Efficacity. The event will take place in Marne-la-Vallée on October 6th and will allow researchers, PhD students and industrial partners to present their work and to exchange on the micro-smart grid' theme. This will aim to introduce both theorical and pratical micro-smart grid developments, offering information on their control and the possible industrial applications. Possible interesting subjects and related applications are:

- · Modeling, control and management of micro-smart grid;
- · Control for AC and DC micro-smart grid;
- · Energy and power quality for micro-smart grid;
- Renewable energy integration and multi-energy systems;
- Static converters for micro-smart grid (topologies, efficiency, performance, etc.);
- · Energy storage systems for micro-smart grid;
- Energy management for micro-smart grid (optimal planning, load shedding, realtime optimization, uncertainties evaluation, etc.);
- Test-beds, case-studies and pilot projects.

Invited Speakers

Josep M. Guerrero, Professor

- Aalborg University, Faculty of Engineering and Science, Department of Energy Technology
- Director of Microgrids Laboratory (http://www.et.aau.dk/ research-programmes/ microgrids/)

Nikolaos Hatziargyriou, Professor

- National Technical University of Athens, School of Electrical and Computer Engineering
- Director of SmartRUE Laboratory (http://www.smartrue.gr/)

Romeo Ortega, Professor

- Laboratoire des Signaux et Systèmes, Centrale Supélec, Paris-Saclay University
- Research Director,
 L2S Laboratory
 (http://www.l2s.
 centralesupelec.fr/en)

Carlos Bordons, Professor

- Professor, University of Sevilla, Spain
- Member of the European Union Control Association Council

Important dates

- Mandatory free registration before **September 22th**, **2017** to website https://www.eventbrite.fr/e/billets-isn-micro-reseaux-2017-33620781663
- Scientific Workshop on Micro and Smart Grid : October 6th, 2017 (8h 18h)