



Special Session on

TOOLS FOR ENERGY STORAGE SYSTEMS CONTROL FOR E-MOBILITY

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Call for Papers

Electrical energy storage represents the future of e-mobility. Electrical energy storage (EES) is the key point for the electrification of vehicles. The three main areas crucial for ESSs in electric vehicles (EVs) are.

- ESSs need to be sized well as a function of power and energy.
- Energy flows must be managed in order to ensure the supply of electric machines and ancillaries.
- Safety must be ensured at any moment.

This special session deals with the tools developed for the ESSs use in the context of EVs.

- Modelling formalisms (Energetic Macroscopic Representation, Bond graph) for ESSs used in EVs.
- Strategies for energy management in multi-source EVs (fuel cell, supercapacitor, battery...).
- Tools for Energy Management System (EMS) (SOC estimator, SOH estimator...).
- Ageing models for ESSs applied to EV driving cycles.
- Models for ESSs adapted to EV use.

This special session is organized under the frame of the French network on electric and hybrid vehicles (MEGEVH network).

Deadlines:

Submission of the full paper: October 15th, 2017
Notice of acceptance: November 11th, 2017
Submission of final papers: December 12th, 2017

All the instructions for digests are included in the conference website: <http://icit2018.org/en>