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Clean Tech for Transportation

<http://www.vppc2010.org/>



Special Session on

ADVANCED CONTROL ON MULTI-SOURCE

MULTI-CONVERTER FOR AUTOMOTIVE APPLICATIONS

Chair: Dr. Mohamed BECHERIF, University of Technology of Belfort-Montbéliard (France)
mohamed.becherif@utbm.fr

Co-chair: Prof. Mehrdad KAZERANI, University of Waterloo (Canada)
mkazeran@ecemail.uwaterloo.ca

Call for Papers

Control systems play a prominent role in the enhancement of performance, reliability and safety of transportation systems. Advanced control systems for vehicular systems guarantee robustness against parameter uncertainties, optimize energy consumption and cost, and reduce harmful emissions.

This special session is dedicated to automatic control in automotive systems such as Battery-Electric Vehicles (BEVs), Hybrid-Electric Vehicles (HEVs), Fuel Cell Vehicles (FCVs) and trains. Automotive control systems from both theoretical and technological points of view are covered.

Topics of interest include, but are not limited to:

- Modelling and/or control of DC-DC, AC-DC and DC-AC converters dedicated to BEVs, HEVs and FCVs.
- Modelling and/or control of multi-source, multi-converter powertrain systems for HEVs and FCVs.
- Control of Electrical motors and actuators for vehicles,
- Communication, acquisition and processing of information gathered from sensors for automatic control,
- Automatic control for safety,
- Optimization, optimal control, and
- Fault detection in BEVs, HEVs and FCVs.

Keywords: Automatic control, modelling, multi-source/multi-converter powertrain, BEV, HEV, FCV, energy storage (battery, ultracapacitor, flywheel), mechatronics, optimization, fault detection

- Deadlines -

Submission of abstracts:	March 1, 2010
Notice of acceptance:	April 15, 2010
Submission of full papers:	June 15, 2010
Deadline for registration:	July 30, 2010

All the instructions for abstracts are included in the conference website <http://vppc2010.org/> :

- Special Session title, paper title, authors, affiliation(s), mailing and e-mail address(es),
 - corresponding author clearly identified,
- Abstract of 100-300 words and a digest of 3-5 pages.