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Clean Tech for Transportation

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



Special Session on

ADVANCED CONTROL OF ELECTRICAL MACHINES FOR AUTOMOTIVE APPLICATIONS

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Call for Papers

Applications of electric machines in automobiles have been explosively increased in the last decade or so. These applications could be at component level like a motor driven throttle valve or at system level such as electric motor drive based traction system in a hybrid electric or a purely electric vehicle (HEV or EV). In order to deliver optimized power management and control in an 'electrified' vehicle, high performance mechatronic control solutions are highly desired which normally consist of advanced (robust, adaptive, and/or intelligent) control of electrical drives, high precision sensing, and innovative actuating. Moreover, such mechatronic controls are also expected to deliver reliability and safety. This special session is dedicated to **advanced control of electrical machines for automotive applications**. Papers are solicited in the most recent development of advanced control of electric drives with automotive related applications. Topics of interests include, but are not limited to:

- Mechatronic control of electrical machines and drives (IM, PMSM, SRM, etc) in various transportation systems (HEV, EV, train, ...),
- Model based advanced control of electric drives for automotive applications,
- Estimation and identification in electric drive systems,
- Noise and vibration control in electrical machines,
- FPGA and microprocessor-based control for electric machines,
- Sensorless solutions for electric drive control,
- High precision sensing and actuating for electric drive systems.

- 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.