IEEE Vehicle Power and Propulsion Conference

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http://www.vppc2014.org/

Special Session on

GLOBAL OPTIMIZATION OF THE DESIGN HEV POWER TRAINS

organized within MEGEVH (French scientific network on HEVs)

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Call for Papers

Hybrid vehicles with different topologies are now available on the market. However, their efficiency and their economic viability can be improved.
Classical design process of hybrid vehicle is sequential. A first "systemic" design gives the components characteristics (power, maximum torque...). The components are then the components are optimized, usually on some chosen operating points. Energy management is frequently not really included in the design process. This generally leads to non optimal systems.
Thus, a way of improvement of the hybrid vehicles architectures is the global optimal design of the power train the components and the energy management.

This special session aims at presenting the latest research on vehicle and components sizing. Topics of interest include, but are not limited to:

- Joint design including vehicle, components and energy management.
- Optimal global design and methods applied to hybrid vehicles
- Optimal design of components related to their use (driving cycle, energy management, …)
- Components model adapted to global design
- Influence of energy management on optimal design

Deadlines:

Submission of abstracts:	**April 15, 2014**
Notice of acceptance:	**May 18, 2014**
Submission of full papers:	**July 1st, 2014**
Deadline for registration:	**August 31, 2014**

All the instructions for abstracts are included in the conference website http://www.vppc2014.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.