

IEEE VPPC 2010

Vehicle Power and Propulsion Conference
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Clean Tech for Transportation

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



Special Session on

EMI/EMC FOR VEHICULAR SYSTEMS

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Call for Papers

Electromagnetic Compatibility is one of the major constraints in the design of vehicular power systems. Smart characterization of EMI/EMC issues is essential for obtaining Clean Energy in next generation vehicular systems (railway, subways, more electric aircrafts, more electric ships,...), ensuring optimal functionality, and the smooth co-existence of the vehicle's electrical and electronic systems.

Power converters play a central role in modern electric and hybrid electric drive systems, and constitute a major source of Electromagnetic Emissions. These emissions are coupled to other components either through the cable harnesses or by radiation. Thus, analysis and modeling of Electromagnetic Interference (EMI) sources and coupling paths are crucial in designing robust electric power systems, satisfying various EMC regulations.

In order to solve the problem of EMC fundamentally, various approaches must be adopted to inhibit interference sources, intercept the coupling paths, and enhance the immunity of sensitive equipment. This special session is focused on analysis and studies aiming at vehicle management system EMC for Clean Energy, EMI/EMC modeling at component and system levels, and EMI suppression techniques.

Topics of interest include, but are not limited to:

- EMI modeling and simulation of vehicular power systems.
- Test methods and instrumentation for EMC.
- System design improvements by means of EMC modeling.
- EMC in drives systems.
- EMI filters.
- Innovative EMI suppression techniques.
- Test methods for whole vehicle conducted and radiated susceptibility.

- Deadlines -

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| 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.