



VPPC 2016 OCT 17-20, 2016
HANGZHOU
The 13th IEEE Vehicle Power and Propulsion Conference

#SS2 - Special Session on

Contactless Charging for Electric Vehicles

Chair: Dr. Chunhua Liu, City University of Hong Kong (Hong Kong, China)

chunliu@cityu.edu.hk

Co-chair: Dr. Zhen Zhang, Tianjin University (Tianjin, China)

zhangz@tju.edu.cn

Co-chair: Dr. Praveen Kumar, Indian Institute of Technology (Assam, India)

praveen_kumar@iitg.ernet.in

Call for Papers

As one of the most epoch-making techniques, wireless power transfer (WPT) unfolds increasing charm for various industrial applications, especially for electrical vehicles (EVs). By utilizing this emerging technique, the vehicle can be energized in the static and dynamic ways. In particular, the EV can harness wireless power from electromagnetic field in air and then charge their battery in dynamic states or extreme operation conditions. Thus, the wireless power transfer technique has been increasingly taken as a preferable way to significantly extend the driving range of EVs other than awaiting the breakthrough of battery technologies. This session aims to offer a timely opportunity for academic researchers and industrial engineers to present, discuss, and exchange the latest results and findings of wireless power transfer technologies for EVs, especially on the working principle, electromagnetic field theory, power electronic technique and applications, as well as the future development directions.

Topics of interest include, but are not limited to:

- Architecture of contactless charging for roadway-powering EVs
- Power electronics for wireless power transfer, including converters, inverters, compensation network, power supply, etc..
- Analytical methods for wireless power transfer technologies.
- Components and EMC designs of WPT for EVs
- Modeling, simulation, and control of EV contactless charging systems
- Foreign-objective detection for contactless charging.
- Energy security for wireless charging systems.
- Reviewing pervious research works and techniques.

Deadlines:

Submission of digests: ~~March 31, 2016~~ April 30, 2016
Notification of acceptance: May 15, 2016
Submission of full papers: July 15, 2016

All special session digests must be prepared and submitted in the same way as those for the conference regular tracks (see <http://www.vppc2016.org/>), except that the corresponding special session should be identified during submission.