

**EPE-PEMC 2012: ECCE Europe
15th International Power Electronics and Motion
Control Conference
Novi Sad, Republic of Serbia**

**INVITED SPECIAL SESSION: “Wireless Power
Transfer”**

organised by

Srdjan Lukic, North Carolina State University, USA, smlukic@ncsu.edu

Call for Papers

Wireless power transfer (WPT) via magnetic coupling has been an attractive research topic since the first experiments by Nikola Tesla, and continues to attract interest from the scientific community. Today, WPT powers electric vehicle chargers, factory automation systems, and implantable medical devices. Recently, research at MIT has reinvigorated interest in WPT, and several new applications are being explored. Current embodiments of practical WPT systems rely on tightly controlled coupling between the source and the receiver, usually achieved by mechanical restrictions on the movement of the receiver. Innovative applications of WPT require that one or many receivers be freely moving and at a substantial distance from the source. With recent advances in power electronics switching devices there is an opportunity to devise efficient wireless power transfer systems operating at higher frequencies and therefore at larger distances. This special section aims to discuss recent advances in circuit topologies, mathematical modeling, and system design, control, and implementation. Topics of interest include, but are not limited to:

- New applications of wireless power transfer systems
- System design, control and implementation issues
- Power electronics topologies for wireless power transfer applications
- Coil designs for wireless power transfer applications
- Electromagnetic designs for wireless power transfer applications

Submission procedure: The same as for regular papers.

Submission deadline: 19th December 2011

All the instructions for paper submission are included on the conference website:
<http://epe-pemc2012.com/>