

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

**INVITED SPECIAL SESSION: “Power electronics in  
biomedical applications”**

**organised by**

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**Call for Papers**

Increased interest in biomedical engineering during the last two decades required development of many power electronics systems to support biomedical applications. This includes wide scope of systems, varying from specific power supplies for x-ray based diagnostic systems, MRI (Magnetic Resonance Imaging), MMF (Medical Magnetic Fields), nerve and muscle stimulators, up to the systems for contactless power transfer to supply various body implants, drive circuits for electromechanic devices ranging from limb prostheses up to implanted artificial heart, as well as the electromechanic devices themselves. The session is intended to cover theoretical and practical aspects of biomedical applications of power electronics, ranging from efficiency, reliability, safety, battery supply, mobility, interaction with biological systems, influence of electrical and magnetic fields on various tissues, EMI, standards, and electromechanical devices applied in biomedical systems.

**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/>