

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

**INVITED SPECIAL SESSION: “Multiphase Systems
in Power Control Applications”**

organised by

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Call for Papers

More than three-phase electrical systems (including multiphase machines and power converters) have gained recent interest of the research community. Their intrinsic advantages, such as fault tolerance or power splitting, are especially interesting for safety-critical (multiphase windpower generation systems) and propulsion applications (more-electric aircraft, electrical and hybrid vehicles, all-electric ship propulsion). In spite of the increasing research and industrial use of multiphase systems, this area is far from achieving a well-established technology and needs further development.

This special session will address, among others, the following topics:

- Multiphase generation systems, including applications in wind energy conversion systems.
- Multiphase variable-speed drive systems, including applications in high-power industries, electric and hybrid electric vehicles, ship propulsion and more electric aircraft.
- PWM of power electronic converters for multiphase generation/drive systems, including modulation of matrix, two-level and multilevel multiphase power converters.
- Control strategies for multiphase generation/drive systems, including vector, direct torque, direct power, predictive and sensorless control.
- On-line/off-line identification techniques of multiphase machine parameters.
- Fault detection and fault-tolerant operation of multiphase generation/drive 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/>