

CALL FOR PAPERS

Special Session on Multiphase Variable Speed Drives

to be held in the frame of
IECON 2013 - The 39th Annual Conference of the IEEE Industrial Electronics Society
10th - 13th of November 2013, Austria Center, Vienna, Austria



TOPIC OF THE SPECIAL SESSION

Electrical systems with more than three phases (including multiphase machines and power converters) are currently widely discussed in the research community. Their intrinsic advantages, such as fault tolerance and/or power splitting, are especially interesting for safety-critical applications (more-electric aircraft, electrical and hybrid vehicles, all-electric ship propulsion). In spite of the considerable recent research and widening industrial use of multiphase systems, this area is far from being closed and requires further developments.

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

- 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 drive systems, including modulation of matrix, two-level and multilevel multiphase power converters.
- Control strategies for multiphase drive systems, including vector, direct torque, direct power, predictive and sensorless control methods.

SPECIAL SESSION ORGANISATION

Emil Levi
e.levi@ljamu.ac.uk

Federico Barrero
fbarrero@esi.us.es

The organizers look forward to welcoming you to Vienna, Austria from 10th to 13th November 2013.

Important Dates

Regular Paper submission:	April 01, 2013
Notification of acceptance:	June 15, 2013
Final submission:	August 01, 2013



- On-line/off-line identification techniques of multiphase machine parameters.
- Fault detection and fault-tolerant operation of multiphase drive systems.

SUBMISSION OF PAPERS

The working language of the conference is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the conference web page. Accepted and presented papers will be published in an IEEE Proceedings volume and will be sent to IEEE Xplore. In addition, selected authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics or in the IEEE Transactions on Industrial Informatics.

THE CONFERENCE

IECON 2013 is the 39th Annual Conference of the IEEE Industrial Electronics Society, focusing on industrial and manufacturing theory and applications of electronics, controls, communications, instrumentation and computational intelligence. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship.

Papers with new research results are encouraged for submission. IECON 2013

will be held concurrently with the 7th IEEE International Conference on E-Learning in Industrial Electronics (ICE-LIE 2013). Participation in any of these events just requires a single conference registration fee. The world's industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, special sessions and social activities, and furthermore, enjoy beautiful Vienna.