

# CALL FOR PAPERS

## Special Session on Power Converters, Control, and Energy Management for Distributed Generation

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



### TOPIC OF THE SPECIAL SESSION

Distributed generation (DG) is expected to play vital role in future to improve the human living. DG and its integration to local AC grid provide options for economical, continuous, and two-directional power flow (utility interface). In addition, it provides a back-up to support during grid failure or blackouts. Low voltage DC grid derived from DG is safe and may cover significant portion of residential load, which is mostly DC load avoiding inefficient ac/dc power supply. Research is needed to push and commercialize these technologies to make the environment clean by replacing conventional generation system.

Topics of interest include, but are not limited to:

- Power factor corrected (PFC) converters
- Low scale residential inverters (off-grid and grid-tied) and micro-inverters: compact, low cost, and reliable
- Soft-switching High-frequency dc/dc converters (voltage-fed and current-fed)
- New DC/DC converter topologies
- Power quality improvement techniques (including modulation)

### SPECIAL SESSION ORGANISATION

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

### Important Dates

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



- Energy storage from distributed energy resources (DER) and transient issues
- Storage for grid integration and firming of renewables
- Smart buildings and integration of DERs
- Hybrid residential micro-grid (AC+DC)
- Energy efficiency analysis in local micro-grids
- Intelligent control of grid-connected power converters or converters/inverters in micro-grid/smart-grid
- Power quality issues and new standards/trends

### **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.