

# CALL FOR PAPERS

## Special Session on High Power Factor Rectifiers

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

In most applications such as variable-speed drives, power supplies, electrochemical industries and HVDC transmissions, the electric power is converted into a DC form in order to facilitate its exploitation. This conversion is still carried out in most cases by conventional power converters that yield power quality degradation and cause severe impacts on the performance and reliability of the power grid. Various harmonic-free rectifiers for power factor improvement were recently introduced. A tremendous effort is being deployed on the structural as well as the control level in order to get cost-effective and optimized topologies that would enhance the power quality in modern power systems.

Topics of interest include, but are not limited to:

- Power Factor Correction (PFC) circuits
- Single-phase and three-phase PWM rectifiers
- Bidirectional and unidirectional power flow rectifiers
- Current-injection rectifiers
- Multilevel high power factor rectifiers
- Single-stage and multi-stage active rectifiers

### 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 |



- Isolated and non-isolated unity power factor rectifiers
- Modeling techniques applied to active rectifiers
- Modern and advanced control methods for switch-mode rectifiers
- New PWM methods for current and voltage control
- Intelligent control systems in modern rectifiers
- Real-time simulations of switch-mode rectifiers

### **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.