

# CALL FOR PAPERS

## Special Session on Predictive Control for Power Converters and Drives

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

Predictive control is a very powerful and attractive alternative to control for power electronics converters and drives, due to the advances in modern microprocessors. The use of predictive control offers a number of advantages: very intuitive approach, no need of linear controllers and modulators, easy inclusion of nonlinearities and restrictions, etc. Interest on this topic in the last years has been recognized by the IEEE Transactions on Industrial Electronics in publication of a special section dedicated to Predictive Control of Power Electronics and Drives, that was published in December 2008 and June 2009 and the by the organization of several special sessions in international conferences like ICIT,09, IECON'10, ISIE'12 and IECON'12. The aim of this special session is to attract all researchers in this field to a fruitful interchange of experiences. Topics of interest include, but are not limited to:

- Current control of three-phase Inverters using predictive control

### SPECIAL SESSION ORGANISATION

Sergio Vazquez  
sergi@us.es

Jose Rodriguez  
jrp@usm.cl

Leopoldo G. Franquelo  
lgfranquelo@ieee.org

Hector Young  
hector.young@postgrado.usm.cl

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



- Current control for Shunt Active Power Filters using predictive control
- Current control of AC/DC or AC/DC/AC Converters using predictive control
- Current control of three-phase Source Rectifiers using predictive control
- Predictive modulation in multi-switching systems
- Model predictive control in Industrial Electronics.
- Efficient predictive control strategies
- Predictive control for multilevel power converters
- New applications of predictive control for power converters
- Predictive control for High-Power applications
- Predictive control for drives applications

### **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.