

CALL FOR PAPERS

Special Session on Wind Energy Conversion Systems: Advanced Topologies and Control

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

The development of novel topologies and control techniques for wind energy conversion systems (WECS) is currently a topic of interest within the research community. Even though the technology of WECS has matured, the emergence of remote off-shore farms, increasing power rating of wind turbines and the appearance of tighter grid codes are requesting advanced configurations and control strategies. The wide variety of generators (induction/synchronous), converters (multiphase/multilevel), configurations (partial/fullcapacity, gear/gearless), voltage rating (low/medium) and control strategies that can be found in commercial wind turbines highlights the challenging nature of this topic. In this context, the development of WECS capable of improving the maximum power point tracking (MPPT), low voltage ride through (LVRT) capability, system efficiency, fault tolerance, power quality, cost and performance are the topics of major concern for the wind energy industry. The aim of this special session is to concentrate all related contributions submitted to IECON 2013 and to provide a fertile environment for presentation and discussion of emerging technologies while promoting academic and industrial interaction and cooperation. The scope of this

SPECIAL SESSION ORGANISATION

Emil Levi
E.Levi@ljmu.ac.uk

Mario J. Durán
mjduran@uma.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



special section includes, but is not limited to:

- Generator-converter configurations for WECS, including remote off-shore farms.
- Generator-side and grid-side converter control methods.
- Multiphase generators for WECS.
- Multilevel converters for WECS.
- Grid synchronization.
- Maximum power point tracking techniques.
- Low voltage ride through capability of WECS.
- Power quality and efficiency.

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.