

CALL FOR PAPERS

Special Session on Advances in Energy Storage

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

Recent developments in rechargeable battery and supercapacitor technology create new and attractive opportunities in the field of energy storage systems. Exploiting these opportunities require a deep understanding of these new battery and supercapacitor technologies and the development of novel architectures and algorithms for their effective management. Furthermore, the integration of the energy storage system in both already consolidate and innovative applications is of paramount importance.

Topics of interest include, but are not limited to:

Part I: Energy Storage Devices

- Battery and supercapacitor technology
- Battery and supercapacitor testing
- Battery and supercapacitor modeling
- Fly-wheel devices and other energy storage technologies

Part II: Energy Storage Systems and Applications

- Battery monitoring and management
- Fault-tolerant architectures and functional safety standard implementation

SPECIAL SESSION ORGANISATION

Federico Baronti
f.baronti@iet.unipi.it

Mo-Yuen Chow
chow@ncsu.edu

Sheldon S. Williamson
sheldon@ece.concordia.ca

Nihal Kularatna
nihalkul@waikato.ac.nz

Hubert Razik
hubert.razik@univ-lyon1.fr

Roberto Saletti
r.saletti@iet.unipi.it

Walter Zamboni
wzamboni@unisa.it

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



- Battery protection and battery pack reconfiguration
- Battery status estimation
- Cell balancing of series-connected elements
- Hybrid energy storage systems
- Applications of energy storage systems
- Conventional applications of supercapacitors
- New circuit topologies and applications exploiting supercapacitors
- Energy storage for electric vehicles (EVs) and Plug-in Hybrid Electric Vehicles (PHEVs)

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.