

CALL FOR PAPERS

Special Session on Trust in ICT Infrastructures for Smart Grids

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

Various proposals for ICT infrastructures in emerging Smart Grids exist. Many of the proposals to date focus on how ICT can provide the functionality required in Smart Grids. Before real world deployment can be successful, the critical issue of trust needs to be addressed from the perspective of users on all system levels. Dependability and acceptability form two necessary conditions for trust.

Dependability refers to certified reliability, robustness and availability of the ICT infrastructure. Approaches to testing from both the ICT and the energy domain need to be coupled for a holistic approach to verify this dependability. Related issues can be identified for all smart grid components: Transmission and distribution network providers have to install the upcoming next generation of SCADA-ICT (IEC 61850), PMU wide area monitoring for protection and control over Internet connections. To avoid parallel communication infrastructures for Telecom- and SCADA-applications an intensive cooperation between the energy and the ICT researchers is needed.

Acceptability refers to the level of trust ICT users afford the new technology. Users

SPECIAL SESSION ORGANISATION

Dominik Engel
dominik.engel@en-trust.at

Ulrich Hofmann
ulrich.hofmann@salzburgresearch.at

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



need to be informed of what choices can be made (user information), how these choices influence smart grid processes (functional transparency), what data items at what granularity need to be disclosed for this purpose (user-managed privacy) and that processes and data transfer are operated in a secure way (accountable security). On all items, systemic feedback to the user needs to be provided consistently in order to raise user awareness and ultimately create a level of user trust that allows meaningful interaction. We invite original research papers that propose methods for enhancing trust in ICT infrastructures for Smart Grids.

Topics include (but are not limited to):

- Risk Assessment: Metrics and Methodology
- Privacy, Anonymization
- Security, Encryption
- Format-compliance
- Trusted Computing
- Key Management
- User-Centric Privacy and Security Management
- User Awareness
- Testing: Conformance, Interoperability, Interchangeability

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.