

# CALL FOR PAPERS

2013 IEEE International Workshop on Intelligent Energy Systems (IWIES)  
“Managing the Complexity in Energy Systems”

[www.iwies2013.org](http://www.iwies2013.org)



The IEEE Workshop on Intelligent Energy Systems aims at bringing together researchers from academia, industry, standardization and public authorities to discuss recent developments in architectures, concepts and algorithms for managing the increasing complexity in energy systems, especially in Smart Grids.

IWIES 2013 will be collocated with IECON 2013, the flagship conference of the IEEE Industrial Electronics Society. These two events will hold concurrent sessions and joint activities, but each will publish its own proceedings. Participants can enjoy both, IWIES and IECON, and receive both proceedings for a single registration fee.

Today's power and energy systems are in a transformation process towards a smarter grid in order to cope with the large scale integration of Distributed Energy Resources (DER), Intelligent and Controllable Loads and E-vehicles. Advanced Information and Communication Technology (ICT) solutions and management concepts are one of the key enablers of the future Smart Grid. In order to cope with ever increasing complexity of the Smart Grid itself and its corresponding Cyber-Physical components and devices new architectures, concepts, algorithms, and procedures are necessary.

The main objective of this workshop therefore is to bring the research and industry community together to discuss recent developments and approaches in the area of intelligent energy systems.

The organizers look forward to welcoming you to Vienna, Austria on November 14, 2013.

In conjunction with  
**The 39th Annual Conference of the IEEE Industrial Electronics Society (IECON 2013)**

**Austria Center Vienna  
Vienna, Austria**

**Sponsored by  
IEEE Industrial Electronics Society (IES)**

**Technically Co-Sponsored by  
IEEE Systems, Man,  
and Cybernetics Society (SMCS)**

**Supported by IEEE Austria Section**

## Important Dates

Workshop paper submission	<del>May 15, 2013</del> <b>June 7, 2013</b>
Workshop author notification	June 30, 2013
Workshop camera-ready submission	August 01, 2013



## SUBMISSION OF PAPERS

The working language of the workshop is English. Submit the full paper as PDF following the IEEE layout requirements by using the templates given at the workshop web page. Accepted papers that are presented at the conference will be published and included in the IEEE Xplore on-line digital library and indexed by EI Compendex database.

In addition, selected authors (with excellent paper reviews and outstanding presentation) are encouraged to submit extended papers for publication to the corresponding IEEE IES/SMC Transactions.

### Topics of interest include

- Computational intelligence and soft computing (e.g., evolutionary/genetic algorithms, neural networks, fuzzy logic) in complex energy systems
- Modeling of complex energy systems
- Advanced simulation methods for Smart Grid development
- Advanced control and optimization algorithms
- Validation methods of applications and devices
- Recent developments in SCADA and distributed control technology (e.g., holonic concepts, multi-agent systems, service-oriented architectures)
- Integration of (distributed) stochastic energy generation
- Algorithms for automatic market participation
- Ancillary services for DER components
- Smart grid control
- Intelligent grid participants (e.g., DER, intelligent buildings, storages, charging devices)
- Integration of DER devices, storages and intelligent loads (e.g., intelligent buildings) into Smart Grids
- Topic related to e-vehicles (from a grid point of view)
- Cyber-security issues in intelligent energy systems
- Advanced communication systems and approaches for energy systems
- Training and educational aspects
- Standard-related topics (e.g., CIM, IEC 61850) for intelligent energy systems and Smart Grids

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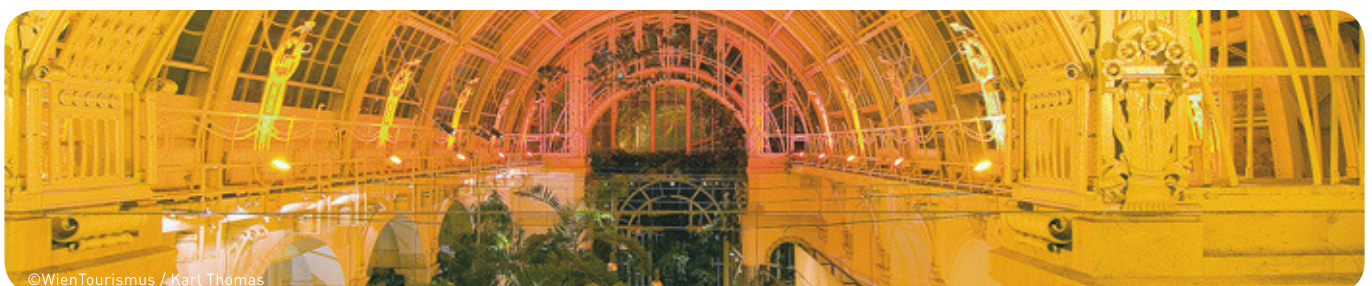
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