



TECHNISCHE  
UNIVERSITÄT  
DRESDEN



Chair for  
Telecommunications

29 March – 1 April 2009  
Dresden, Germany



IEEE International Symposium on  
Power Line Communications and its Applications



Celebrating 125 Years  
of Engineering the Future



## Call for Papers

It is our pleasure to announce that the 13<sup>th</sup> IEEE International Symposium on Power Line Communications and its Applications will be held at the premises of the Technische Universität Dresden, from 29 March to 1 April 2009. Dresden is both the half million people baroque capital of Saxony and the microelectronics center of Europe.

The Symposium focuses on research, application, and commercialization aspects of the power line communication technology, in both broadband and narrowband fields. Prospective authors are cordially invited to submit original contributions describing completed or ongoing research related to the power line communication area. The contributions should address one of the following aspects:

### Technology aspects

- Channel characterization (measurements and modeling of signal propagation and noise/disturbance)
- Electro-magnetic compatibility/interference and coupling (measurements and solutions)
- Modulation and coding techniques (among others: multi-carrier, OFDM, spread-spectrum, UWB, and single carrier)
- Signal processing (frequency and phase synchronizations, symbol timing synchronization, detection, equalization, etc)
- Cognitive issues: resource allocation, spectrum monitoring, and spectrum allocation
- Error control (FEC, interleaving, ARQ, etc.)
- Multiple access techniques and MAC protocols
- Duplex and repeater techniques, routing, and autonomous network functions (e.g. auto-configuration)
- Network planning and optimization
- Cross-layer optimization and service integration (PLC specific and higher layers, traffic control, from physical to network and application layers)

### Implementation and deployment aspects

- Coexistence and interoperability
- Modem and LSI (Large Scale Integration) design
- Security
- Network and service management
- System architectures and solutions
- Power system applications (AMR, IMR, protection, smart grid, power quality, management, control, monitoring, sensor network, etc)
- Broadband and multimedia applications (home network, video on demand, VoIP, games, IPTV, etc)
- Experimental systems, field trials, and commercial networks
- Standardization and regulation
- Business perspectives

### Important Dates

Full Paper Submission: **EXTENDED to 16 December 2008**

Notification of Acceptance: 3 February 2009

Camera-ready Paper Submission: 24 February 2009

### Contact

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Please visit the symposium website at <http://www.ieee-isplc.org/2009> for detailed information and submission guidelines.