



The 2017 IEEE International Symposium on Power Line Communications and its Applications (ISPLC) will be the 21st symposium dedicated to scientific and technical advances in the field of communications over power lines. The event is sponsored by IEEE Communications Society (IEEE ComSoc). The conference will be held in the capital city of Spain, Madrid, from April 3rd to April 5th 2017.

IEEE ISPLC 2017 main topic is **“Smart Grid and its Industry”** and will focus on industry applications of power line communications, theoretical and practical aspects of communications theory, algorithms, channel and noise measurements, EMC, simulation and real implementations, evaluation and lessons from field trials and related experience, network planning, installation, operation and management, protocols, cybersecurity, standards and regulations pertaining to communications via power lines.

One of the main features of ISPLC is strong industry participation; it brings together researchers, practitioners and users of PLC technology. The conference will further include a series of keynote and experts’ panel talks, as well as an Industry Exhibit centered on PLC for Smart Grids and a field visit to Iberdrola PLC network.

Acceptance of submissions will be based on quality, relevance, and originality, with awards for the best submissions. Accepted papers will be published in the IEEE ISPLC 2017 Conference Proceedings and in IEEE *Xplore*[®].

Submissions are invited in, but not limited to, the following areas:

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- PLC for Smart Metering, Distribution Automation, Distributed Generation and Home Automation
 - PLC integration with electric grid assets
 - Experience from large scale PLC roll-outs
 - Noise effects over PLC
 - Channel characterization, modeling, emulation, and experimental systems
 - Cybersecurity in PLC
 - Access, in-home and in-vehicle power line networks
 - PLC signal coupling
 - Field trial evaluations and results
 - System architectures integrating PLC
 - PLC modem and low level design
 - Broadband and multimedia applications
 - Layer 2 (switching) techniques in PLC systems
 - Layer 3 (routing) techniques in PLC systems
 - PLC standardization and regulation
 - Emerging PLC-related technologies
 - Network and service management
 - Network planning and optimization
 - Performance measurements and comparability of field trials
 - Electromagnetic compatibility and interference
 - Modulation, coding and signal processing for PLC
 - Coexistence and interoperability
 - Measurement concepts, protocols and tools for PLC
 - Operation and management for PLC networks
 - Green communications and energy saving concepts for PLC modems
 - Cross-layer optimization and service integration
 - MIMO PLC
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Important Dates:

Paper Submission: 22 November 2016
Notification Date: 22 January 2017
Final Paper: 19 February 2017

Organizing Committee:

General Chair

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Vice Chair

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Institute Europe, China

PLEASE NOTE: To be published in the IEEE ISPLC 2017 Conference Proceedings and to be eligible for publication in IEEE *Xplore*[®], an author of an accepted paper is required to register for the conference at the full (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the TPC Chair grants permission for a substitute presenter arranged in advance of the event and who is qualified both to present and answer questions. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full registration is valid for up to 3 papers. Accepted and presented papers will be published in the IEEE ISPLC 2017 Conference Proceedings and submitted to IEEE *Xplore*[®] as well as other Abstracting and Indexing (A&I) databases.