



## CALL FOR PAPERS

The 2020 IEEE International Symposium on Power Line Communications and its Applications (ISPLC) is the 24<sup>th</sup> 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 Malaga, the capital of the Costa del Sol (Spain), between 31<sup>st</sup> March and 3<sup>rd</sup> April, 2020 (Tuesday to Friday).

Traditionally, one of the main features of ISPLC is strong participation of the industry, bringing together researchers, practitioners and users of PLC technologies. The symposium will include a series of keynote speeches, industry talks and experts' panel.

An important **novelty** of this edition is that contributions can be submitted to any of the following **four types of sessions**:

Type of submission	Target	Acceptance criteria	Publication
Regular technical	Unpublished works	Peer review	Proceedings & IEEE Xplore®
Dissemination	Works already published in journal papers	TPC co-chairs	Only to attendees and subject to authors' authorization
Industrial & standardization	Ongoing or recent industrial developments, specifications, standards and prototypes	TPC	Only to attendees
Recent results	Ongoing research and preliminary results	TPC co-chairs	Only to attendees

Check the [website](#) for full details of submission procedures and requirements for the different submissions. Submissions are invited in, but not limited to, the areas given below. Innovative topics, as the ones in *italics*, are particularly welcomed.

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <i>Cooperative technologies with PLC/hybrid systems: VLC, wireless, XDSL...</i></li> <li>· <i>Developments for new PLC standards (G.hn2, IEEE 1901.1, PLC-IoT...)</i></li> <li>· <i>Machine learning applications in PLC</i></li> <li>· PLC standardization and regulation</li> <li>· Noise effects over PLC, channel characterization, modelling, emulation, and experimental systems</li> <li>· MIMO, modulation and signal processing for PLC</li> <li>· PLC signal coupling</li> <li>· Access, in-home and in-vehicle power line networks</li> <li>· Broadband and multimedia applications</li> <li>· System architectures integrating PLC</li> <li>· PLC modem and low level design</li> <li>· Field trial evaluations and results</li> <li>· Experience from large scale PLC roll-outs</li> <li>· Cross-layer optimization and service integration</li> </ul> | <ul style="list-style-type: none"> <li>· <i>Full-duplex techniques in PLC</i></li> <li>· <i>Information and communication theory aspects: performance analysis, physical layer security, coding</i></li> <li>· <i>Non-orthogonal multiple access for PLC</i></li> <li>· Emerging PLC-related technologies</li> <li>· PLC for Smart Grids</li> <li>· PLC integration with electric grid assets</li> <li>· Layer 2 (switching) and layer 3 (routing) techniques in PLC systems</li> <li>· Measurement concepts, protocols and tools for PLC</li> <li>· Network and service management</li> <li>· Network planning and optimization</li> <li>· Operation and management for PLC networks</li> <li>· Data analytics in PLC systems</li> <li>· Cybersecurity in PLC</li> <li>· Green communications and energy saving concepts for PLC modems</li> <li>· Electromagnetic compatibility and interference</li> <li>· Coexistence and interoperability</li> </ul> |
|--|---|

### General co-chairs

Francisco J. Cañete, Universidad de Málaga, Spain  
José A. Cortés, Universidad de Málaga, Spain

### TPC Co-chairs

Riccardo Raheli, Università di Parma, Italy  
F. Javier López-Martínez, Universidad de Málaga, Spain

### Publication chair

Mauro Tucci, Università di Pisa, Italy

### Important dates

<b>Paper submission (regular and dissemination sessions)</b>	<b>29 December 2019</b> <del>4 December 2019</del>
Paper submission (Recent results and industrial & standardization sessions)	<b>16 February 2020</b>
Notification of acceptance (regular, dissemination)	19 January 2020
Notification of acceptance (Recent results)	23 February 2020
Final paper	16 February 2020

PLEASE NOTE: Each accepted paper (**of any type of submission**) should be covered by 1 full registration. In addition, to be published in the IEEE ISPLC 2020 Conference Proceedings and to be eligible for publication in IEEE Xplore®, each regular paper must be presented by an author of that paper at the conference, unless the TPC co-chairs grant permission for a substitute presenter arranged in advance of the event, qualified both to present and answer questions. For authors with multiple accepted papers, one full registration is valid for up to 3 papers. Accepted and presented **regular** papers will be published in the IEEE ISPLC 2020 Conference Proceedings and submitted to IEEE Xplore® as well as other Abstracting and Indexing (A&I) databases.