



Hybrid: In-Person and Virtual Conference CALL FOR PAPERS

The 25th IEEE International Symposium on Power Line Communications and its Applications (ISPLC2021) will again be dedicated to scientific and technical advances in the field of communications over power lines. The event is sponsored by the IEEE Communications Society Technical Committee on Power Line Communications (TC-PLC, <http://committees.comsoc.org/plc>). The conference will be held on 26-27 October 2021 in Aachen, Germany, co-located with IEEE SmartGridComm 2021.

The ISPLC will focus on key aspects of communications theory, algorithms, standards, implementations, measurements, evaluation of field trials and network operation pertaining to communications via power lines. The traditional strength of ISPLC is a high industry participation, and bringing together researchers, practitioners and users of power line communication technology is a main objective for IEEE ISPLC 2021.

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 2021 proceedings and in IEEEExplore. The conference will further include a series of keynote and plenary talks, as well as an industry forum and special sessions on hot topics for utilities, system integrators and chip manufacturers.

Please check the website for full details of submission procedures and requirements.

<https://isplc2021.ieee-isplc.org/>

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

- Modulation, coding and signal processing for PLC
- MIMO and multi-user PLC
- Channel and impedance characterization, modeling, emulation, and experimental systems
- Impedance measurement techniques including sub mains cycle time variant characterization
- Electromagnetic compatibility, interference and coupling issues
- Multiple access techniques and protocols for PLC networks
- Multi hop routing in PLC and combined PLC / wireless networks
- Cross-layer optimization and service integration
- PLC system architectures
- Machine learning techniques in PLC
- Energy saving concepts for narrow- and broadband PLC modems
- Cybersecurity in PLC
- Cognitive, cooperative, and autonomous approaches
- PLC network planning and optimization
- Operation and management for PLC networks
- PLC for smart grids, smart metering, smart cities, and e-mobility
- Access, in-home and in-vehicle power line networks
- Hybrid PLC based technologies
- Broadband and multimedia applications
- Quality and interoperability /interchangeability tests of chip-sets and modems
- Measurement concepts, protocols and tools for PLC modems roll-out
- Field trial evaluations, identified problems, required improvements
- PLC standardization and regulation

Important dates:

Full papers due: **12 July 2021 (Extended Deadline, Final)**

Notification of Acceptance: 15 Aug. 2021

Camera-ready papers due: 31 Aug. 2021

Committees:

Conference chair:

Anil Mengi, devolo, Germany

Local Organizations chair:

George Hallak, devolo, Germany

Technical Committee co-chairs:

Ralf Lehnert, TU Dresden, Germany

Thokozani Shongwe, U Johannesburg, South Africa

Sicong Liu, Xiamen U, P.R. of China