



Final Program of the

**2019 IEEE International Symposium
on Power Line Communications
and its Applications (ISPLC)**



3-5 April 2019// Prague, Czech Republic
Hosted by the Czech Technical University in Prague

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2019 IEEE International Symposium on Power Line Communications and its Applications (ISPLC)

	Wednesday April 3 rd	Thursday April 4 th	Friday April 5 th
8:30-9:30	Registration		
9:30-9:40	Opening	9:00-9:50 Invited Speech #3	9:00-9:30 Invited Speech #4
9:40-10:10	Invited Speech #1		
10:10-10:30	Break	9:50-10:50 Technical Session #4	9:30-11:10 Prof. Hendrik Ferreira Special Session
10:30-11:20	Invited Speech #2	10:50-11:10 Break	
11:20-12:00	Technical Session #1	11:10-12:10 Technical Session #5	11:10-11:30 Break
12:00-13:30	Lunch	12:10-13:30 Lunch	11:30-12:30 Recent Results Session
13:30-15:00	IEEE 1901.1 Industrial Session	13:30-15:00 ITU-T G.hn Industrial Session	12:30-12:40 style="background-color: #800000; color: white;">Conclusion
15:00-16:00	Technical Session #2	15:00-15:20 Break	12:40-14:00 Lunch
16:00-16:20	Break	15:20-16:20 Technical Session #6	
16:20-17:00	Technical Session #3	16:20-17:30 Panel on State of the Industry and Standardization	
17:00-18:30	Welcome Drink		
19:00-20:30	IEEE ComSoc TC-PLC Meeting	18:00-19:30 Optional walking tour to the dinner	
		19:30 Gala Dinner	

Wednesday, April 3rd

8:30	Registration	
9:30	Opening	
	Invited Speech #1: The Local Insight	
9:40	František Müller (ČEZ Distribuce); Radúz Morsztýn (Deloitte)	Hardening the Grid
10:10	<i>Break</i>	
	Invited Speech #2: G3-PLC	
10:30	Cédric Lavenu (EDF)	G3-PLC
	Technical Session #1: Channel Characterization and Modelling (<i>Masaaki Katayama</i>)	
11:20	Dong Liang; Huashan Guo; Tao Zheng	Impedance Tracking and Estimation Using Power Line Communications
11:40	Marco De Piante; Andrea M. Tonello	Channel and Admittance Dependence Analysis in PLC with Implications to Power Loading/Savings
12:00	<i>Lunch</i>	
	IEEE 1901.1 Industrial Session	
13:30	Oleg Logvinov (IEEE 1901.1 WG)	IEEE 1901.1 – the newest member of the IEEE family of PLC Standards
13:50	Dai Shou (IEEE 1901.1 WG)	Advanced Technology of Huawei PLC-IOT Chipset
14:10	Tomasz Piasecki (Huawei)	Practical Examples of PLC-IOT Deployment
14:30	Q&A panel	
	Technical Session #2: Narrowband PLC Systems (<i>Gerd Bumiller</i>)	
15:00	Davide Righini; Andrea M. Tonello	Automatic Clustering of Noise in Multi-Conductor Narrow Band PLC Channels
15:20	Martin Brandl; Karlheinz Kellner; Thomas Posniecek; Daniel Hochwarter	Performance Evaluation of a DQPSK and a DSSS PLC-Modem for Vehicular Applications
15:40	Ainara Fernandez; Alberto Sendin; Manu Sharma; Andreas Brunschweiler; Mohamed Sedjai	Experimental Concept Definition and Validation to Overcome CENELEC A Band Noise with the Use of FCC Band Overlays
16:00	<i>Break</i>	
	Technical Session #3: Signal Processing for PLC (<i>Bamidele Adebisi</i>)	
16:20	Gautham Prasad; Yinjia Huo; Lutz Lampe; Anil Mengi; Victor C. M. Leung	Fault Diagnostics with Legacy Power Line Modems
16:40	Yinjia Huo; Gautham Prasad; Lutz Lampe; Victor C. M. Leung	Smart-Grid Monitoring: Enhanced Machine Learning for Cable Diagnostics
17:00	Welcome Drink	
19:00	IEEE ComSoc TC-PLC Meeting	

Thursday, April 4th

	Invited Speech #3: Panasonic – HD-PLC Alliance	
9:00	Jean-Philippe Faure (HD-PLC Alliance)	HD-PLC Power Line Communication Technology
	Technical Session #4: Layer 2 and Above in PLC (Ralf Lehnert)	
9:50	Stefan G. Hoffmann; Gerd Bumiller; Daniel Szameitat	Security of ITU-T G.9903 and G.9904 – a New Approach for a Systematic Analysis
10:10	Gregorio López; Javier Matanza; M ^a de la Concepción Mora	I Choose You! But Why? Proposal and Evaluation of Policies to Promote Service Nodes to Switches in PRIME Networks
10:30	Francesco Marcuzzi; Andrea M. Tonello	Artificial-Intelligence-Based Performance Enhancement of the G3-PLC LOADng Routing Protocol for Sensor Networks
10:50	<i>Break</i>	
	Technical Session #5: Emerging Applications (Lutz Lampe)	
11:10	Shinji Tsuzuki	Simultaneous Transmission Method of Power and Information Using Hoist Ropes for Mobile Crane PLC
11:30	Augustine Ikpehai; Bamidele Adebisi; Kelvin Anoh	Can 6LoPLC Enable Indoor IoT?
11:50	José Antonio Cortés; Francisco J. Cañete; Matías Toril; Luis Díez; Alicia Garcia-Mozos	Analysis of Power Line Communications for Last-Hop Backhaul in Small Cells Deployment
12:10	<i>Lunch</i>	
	ITU-T G.hn Industrial Session: HomeGrid Forum	
13:30	Len Dauphinee (HomeGrid Forum)	An Overview of Home Grid Forum and the Standardization of Multiple Application Profiles
14:00	George Hallak (devolo)	devolo's ITU-T G.hn Solution for the German Smart Grid Rollout
14:30	Salvador Iranzo (MaxLinear)	Present and Future of ITU-T G.hn Standard
15:00	<i>Break</i>	
	Technical Session #6: PLC for Smart Grid (Cédric Lavenu)	
15:20	Cedric Chauvenet; Cédric Lavenu; Manu Sharma; Andreas Brunschweiler; Mohamed Sedjai	Software Defined Last Mile Networks
15:40	Miguel Seijo; Gregorio López; Javier Matanza; Jose Ignacio Moreno	From the Lap(top) to the Jungle: Validating the PRIME Network Simulator SimPRIME with Data from the Field
16:00	Nikolai Hopfer; Markus Zdrallek; Fabian Karl; Hamed Rezaei; Markus Krampf; Ulrik Dietzler	Analysis of Broadband PLC Characteristics as a Second Use Case for Distribution System Operators
	Panel on State of the Industry and Standardization (Andrea M. Tonello)	
16:20	Len Dauphinee (MaxLinear), Jean-Philippe Faure (Progilon), Cédric Lavenu (EDF), Alfredo Sanz (Microchip Technology), Markus Rindchen (PPC AG)	
18:00	Optional walking tour to the dinner	
19:30	Gala Dinner	

Friday, April 5th

Invited Speech #4: PRIME Alliance		
9:00	Alfredo Sanz (Microchip Technology); Abdelmoniem M. Elbaz (El Sewedy Electrometer Group)	PRIME v14 & Changing the Rules of the Game
Prof. Hendrik Ferreira Special Session (Han Vinck)		
9:30	Han Vinck	In memoriam: Professor Hendrik Christoffel Ferreira
9:50	Rathinamala Vijay; T. Venkata Prabhakar; Vinod Hegde; Vijay S. Rao; Venkatesha Prasad	A Heterogeneous PLC with BLE Mesh Network for Reliable and Real-time Smart Cargo Monitoring
10:10	Abdellah Chehri	A Low Complexity Turbo Equalizer for Power-Line Communication with Applications to Smart Grid Networks
10:30	Armando Vannucci; Giulio Colavolpe; Riccardo Pecori; Luca Veltri	Estimation of a Gaussian Source with Memory in Bursty Impulsive Noise
10:50	Gautham Prasad; Omid Taghizadeh; Lutz Lampe; Rudolf Mathar	Securing MIMO Power Line Communications with Full-Duplex Jamming Receivers
11:10	<i>Break</i>	
Recent Results Session (Shinji Tsuzuki)		
11:30	Andrea M. Tonello; Federico Passerini	New Paradigms for Energy Grids Diagnostics and Maintenance Using PLC
11:40	Kenya Ikeda; Kentaro Kobayashi; Hiraku Okada; Masaaki Katayama	Measurements of Multiple Access Performance of G3-PLC in a Large-scale Building
11:50	J. Miguel Sanz; Víctor Reyes; Alfredo Sanz; J. Guerreira	New PLC Stack for Motor Control Applications
12:00	Zbyněk Kocur; Jiří Vodrážka	Testing System for Communication Part of Smart Grid
12:10	Petr Mlýnek; Pavel Šilhavý; Ján Sláčík; Petr Musil; Jan Hlavnička	Distribution Automation over Broadband PLC on Medium Voltage – Rollout Evaluation and Performance Measurements
12:30	Conclusion	
12:40	<i>Lunch</i>	

Meeting points:

TC-PLC Meeting (Wednesday) – 18:30 at the registration desk

Walking tour (Thursday) – 18:00 in the NLT (NTK) lobby

Gala Dinner (Thursday) – 19:30 at Obecní dům (náměstí Republiky 1090/5)

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