

CALL FOR PAPERS -IEEE GLOBECOM 2011
Selected Areas in Communications Symposium
Powerline Communications Track

Symposium Chair

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Scope and Motivation

The Power Line Communications technology is becoming an enabler for the Smart Grid. Data from smart meters can give users a near real-time access to control and optimize his/her power usage. The smart home can be remotely surveyed and controlled. Charging of the electro-mobile can be optimized. Peak loads can be clipped to reduce energy costs. The PLC channel is a complicated medium disturbed by noise, external emissions and frequent impedance alterations. We ask for contributions on modeling, design and analysis to better understand current and future PLC systems.

Main Topics of Interest

- In-home, access networks
- Smart grid communications and protocols
- PLC channel characterization
- Resource allocation and scheduling
- Modulation schemes (OFDM, filter banks, wavelets, and spread spectrum)
- Coexistence, interoperability, and cooperative systems
- EMC
- PLC modeling and performance evaluation
- Field trials and commercial deployments
- Security mechanisms
- Regulation and standardization

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