

CALL FOR PAPERS - IEEE GLOBECOM 2012

Selected Areas in Communications Symposium

Power Line Communications and Smart Grid Track

Scope and Motivation

Power Line Communications (PLC) technology is successfully being deployed for utility applications, communications access and in-home systems, and considered for in-vehicle communication systems. Recently, PLC has also attracted attention as a key element of the communication infrastructure to enabling the Smart Grid concept. In fact, the need for reliable bidirectional communication between grid elements to allow smart metering, monitoring, control, reconfiguration, protection, and operation of electric power systems is driving considerable R&D&I efforts worldwide. Against this background, we solicit contributions on modeling, design and analysis of current and future PLC systems as well as their integration into the Smart Grid. Furthermore, contributions related to Smart Grid communications which emphasize hybrid solutions employing PLC together with other communication technologies are of great interest for this symposium.

Topics of Interests

Smart grid communications, controls and protocols
In-home, access, in-vehicle networks
Capacity planning, resource allocation and scheduling
PHY and MAC layer protocols
Congestion and admission control
Coexistence, interoperability, cognitive and cooperative systems
Cross-layer optimization
Modeling and performance evaluation
PLC channel characterization and measurement
Measurement data from testbeds, field trials and commercial deployments
Regulation and standardization
EMC

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