



Call for Papers for *Selected Areas in Communications Symposium* *Power Line Communications Track*

Scope and Motivation:

Power Line Communications (PLC) exploit existing power grids to enable a number of applications including broadband multimedia indoor networks, last-mile Internet access, command and control for the Smart Grid and in-vehicle communications. While attractive as an economic spectrum-preserving communication option, PLC may however be impacted by very severe impairments, such as noise, interference and channel instability. The Track solicits original contributions on modeling, design, analysis and applications of PLC systems and networks, as well as their integration with other communication technologies.

Main Topics of Interest:

Topics of particular interest for the Power Line Communications Track are indicated in the following, non-exclusive, list:

- In-building, access and in-vehicle networks
- PLC for the Smart Grid
- Modulation, coding and signal processing
- Multiple access techniques and protocols
- Cross-layer designs
- Cognitive and cooperative communications
- Service coexistence, interoperability and integration
- Modeling, characterization and evaluation of channels and systems
- Testbeds, experimental systems and field trials
- Electromagnetic compatibility, interference and coupling
- Network architectures and security
- Standards and regulatory issues
- Emerging technologies

Sponsoring Technical Committees:

- Power Line Communications

How to Submit a Paper:

The IEEE Globecom 2014 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2014. Unlike recent ICC's and Globecom's, this is a hard deadline that will not be extended.**

Symposium Track-Chair:

Riccardo Raheli
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Riccardo Raheli is Professor of Communication Engineering at the University of Parma, Italy. His research on communication, processing and storage of information has led to numerous international publications in journals and conference proceedings, as well as a few industrial patents. He is coauthor of a few scientific monographs, such as "Detection Algorithms for Wireless Communications, with Applications to Wired and Storage Systems" (John Wiley & Sons, 2004) and "LDPC Coded Modulations" (Springer, 2009). He served on the Editorial Boards of the IEEE Transactions on Communications from 1999 to 2003, the IEEE Journal on Selected Areas in Communications (JSAC) as guest editor of a special issue published in 2005, the European Transactions on Telecommunications (ETT) from 2003 to 2008, and the IEEE Journal of Selected Topics in Signal Processing (JSTSP) as guest editor of a special issue published in 2011. He has also served as Co-Chair of the General Symposium on Selected Areas in Communications at the International Communications Conference (ICC 2010), Cape Town, South Africa, the Communication Theory Symposium at the Global Communications Conference (GLOBECOM 2011), Houston, Texas, USA, and the IEEE International Symposium on Power-Line Communications (ISPLC 2014), Glasgow, Scotland.