

CALL FOR PAPERS

Communication technologies continue to be a central element of the transition to smart, energy efficient and sustainable lifestyles. Communications systems used in these applications often require novel solutions to not only meet unique sustainability requirements, but also to address the impact of the communication technologies themselves. The energy requirements of communication systems are a burgeoning problem that is already straining operating budgets and attracting the attention of policy makers. The IEEE Online Green Communications (OnlineGreenComm) Conference is in its fourth year of providing a forum for research and technology development in the growing area of green communications. IEEE OnlineGreenComm encompasses both energy efficient and sustainable communication technologies as well as green applications addressed through novel communication solutions. Original, unpublished research paper submissions are solicited from industrial, academic, and other non-profit or public sector researchers reporting on substantial results on green communications. Submissions Topics of interest include, but are not limited to those listed below.

Green Solutions for Communication Technologies

Energy-efficiency or greenhouse gas impact in:

- networking and protocols
- communication management
- wired, fiber and optical networks
- wireless and cellular networks
- vehicular communication networks
- data center networks
- content delivery networks
- secure networking
- measurement & profiling

Green Society Solutions based on Communication Technologies

- Smart Cities
- Smart Sensing
- E-health
- Energy-efficient buildings
- Energy harvesting
- Industrial automation
- Machine-to-Machine communications (M2M)
- Intelligent Transport Systems (ITS)
- Sustainable communication platforms

Smart Grid Communications

- Advanced metering infrastructure and smart meter technologies
- Wide-area monitoring and control
- Demand-response management
- Distributed generation and storage
- Operations of renewable energy generation
- Management & control of distributed energy storage
- Grid-to-vehicle and vehicle-to-grid
- Micro-grids

In addition submissions about relevant standardization efforts, field trials, and testbeds related to the previous topics are welcomed.

Technology research is expected to focus on high impact solutions addressing energy, greenhouse gas emissions, or other sustainability related problems. While submissions on energy efficiency improvements are encouraged, reports on efficiency improvements on other metrics must include a clearly articulated and substantial connection to energy or sustainability.

The IEEE OnlineGreenComm Conference is itself an experiment in green communications, implemented online through teleconferencing tools. Although online only, IEEE OnlineGreenComm is still a full-fledged IEEE ComSoc conference, adhering to the same high standards of IEEE ComSoc. Papers accepted and presented at the technical symposia will be published.

IMPORTANT DATES

Paper Submission Deadline: 23 June 2014
Acceptance Notification: 9 September 2014
Camera Ready Version Due: 30 September 2014
Conference Dates: 12-14 November 2014

General Co-Chairs:

Dan Kilper, CIAN, University of Arizona, USA
 ZhiSheng Niu, Tsinghua University, China

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