



## CALL FOR PAPERS

### SYMPOSIUM ON SELECTED AREAS IN COMMUNICATIONS GREEN COMMUNICATION SYSTEMS AND NETWORKS TRACK

#### Track Co-Chairs

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#### Scope and Topics of Interest

Green communications and computing has been increasingly emphasized in recent years, on the grounds not only of ecological concerns but also of significant economic drivers (cost saving). The current explosive growth in the number of devices connected to the Internet and in transmission capacity calls for "green solutions" to address the challenges in energy-efficient and/or resource-efficient and/or environmentally-friendly communications and computing systems.

This track solicits contributions describing current trends and cutting-edge research in communication and computing systems and networks that incorporate "green" constraints in their design and operation. It covers a wide range of green communications topics, including not only green-enabled communications and computing networks, but also communication and computing technologies enabling other green solutions such as smart grids, green buildings and green logistics.

The objective of this track is to facilitate substantial advances in new system architectures, protocols and algorithms, which may allow significant reductions in energy and/or resource consumption. Prospective authors are invited to submit their original work addressing new and emerging issues in communications and networking on the above themes. Submissions are welcome from academia, industry and government organizations.

Topics of interest include (but are not limited to):

- Energy-efficient protocols and networking
- Non-energy based green issues and approaches
- Green transmission technologies and network protocols
- Novel network concepts and architectures lowering the overall footprint of ICT
- Self-organizing green wireless networks
- Green traffic shaping and policy implementation
- Green optical communications, switching and networking
- Use of cognitive principles to reduce energy and/or resource consumption in wireline and/or wireless networks
- Power-efficient cooling and air-conditioning systems for communications and computing
- Physical layer approaches for green communications and computing
- Low cost, energy-efficient antenna and RF designs
- Green management of communication networks
- Context-based green management & green awareness
- Economy and pricing for green communication and services
- Green network monitoring
- Green sustainable storage and cloud computing
- Measurement and profiling of energy consumption
- Green scheduling for communications and computing
- Power consumption trends and reduction in communications
- Modeling and analysis for green communications and computing
- Security in green communication networks
- Standardization, policy and regulation for green communications and computing
- Mitigation of electromagnetic pollution
- Experimental test-beds and results for green communications and computing
- Communication technologies for transport and logistics efficiency, e.g., applications to road traffic optimization and supply chain management
- Communication technologies for industrial processes
- Communication technologies for green buildings
- Communication technologies for energy harvesting
- Architectures and models for Smart Grid communications
- Communications networks for the Smart Grid
- Quality of service in smart grids
- Information security in the Smart Grid
- Sensor and actuator networks for smart grid
- Advanced metering infrastructure and smart meter technologies
- Field trials and deployment experiences

## Submission Guidelines

Prospective authors are invited to submit original technical papers by the (**extended**) deadline of **29 March 2013** (firm) for publication in the IEEE Globecom 2013 Conference Proceedings and for presentation at the conference. Submissions will be accepted through EDAS. All submissions must be written in English and be at most six (6) printed pages in length, including figures. For full details, please visit the following website:

<http://www.ieee-globecom.org/2013/submguide.html>