



GreenComm4

## Fourth International Workshop on Green Communications

Kyoto, Japan, 9 June 2011

<http://www.green-communications.net/icc11/>

In conjunction with IEEE ICC 2011,  
Kyoto, Japan, 9 June 2011

### Organizing Committee

Jürgen Quittek  
NEC Europe Ltd., Germany  
Ken Christensen  
University of South Florida, USA  
Gerhard Fettweis  
Technische Universität  
Dresden, Germany  
Honggang Zhang  
Zhejiang University, China

### Technical Program Committee

To be announced.

## CALL FOR PAPERS

### Objectives

The steadily rising energy cost and the need to reduce the global CO<sub>2</sub> emission to protect our environment are today's economical and ecological drivers for the emerging consideration of energy consumption in all fields of communications. Triggered by network operators experiencing energy cost as a significant new factor of their calculation, researchers have started to investigate approaches for reducing power consumption and manufacturers have started offering energy-efficient network components. Also standards bodies, such as the IEEE, are already developing standards for energy-efficient protocols. While research and development in these areas has recently gained momentum, the space of potential solutions is still far from being explored.

The **Fourth International Workshop on Green Communications** will bring together academic and industrial researchers for discussing energy-efficient communications. After three successful workshops on green communications at ICC'09, GLOBECOM'09 and '10, it will continue to serve as forum for addressing research challenges between the already established conferences and workshops for energy efficiency for IT on one side and for wireless sensor networks on the other side.

### Topics of Interest

We solicit contributions that report recent results, share experiences, or address research challenges in energy-efficient network protocols and devices and in energy management. Particularly, we want to identify and address issues with a very high potential for significant energy saving, including access network infrastructures, and terminal equipment, but excluding energy efficiency for IT (specifically data centers), sensor networks, mobile ad-hoc networks, and mesh networks.

Areas of interest include but are not limited to

- Energy-efficient protocols and protocol extensions
  - Energy-efficient transmission technologies
  - Cross-layer optimizations
- Energy-efficient technology for network equipment
  - Energy-efficient switch and base station architectures
  - Low-power sleep mode
  - Exploitation of passive network elements
- Energy-efficient communications management
  - Architectures and frameworks
  - Hierarchical and distributed techniques
  - Remote power management for terminals
  - Context-based power management
- Measurement and profiling of energy consumption
  - Instrumentation for energy consumption measurement
  - Operator experiences
- Energy-efficiency in mobile, wireless and fixed network infrastructure
  - cloud network infrastructure

### Paper Submission Guidelines

We invite you to submit your papers to the Fourth International Workshop on Green Communications. Submitted papers must represent original material that is not currently under review elsewhere, and has not been previously published. All papers will be properly peer-reviewed by members of the technical program committee and other experts active in the field to ensure high quality and relevance to the workshop. Paper length should be no more than five (5) pages, a maximum of one (1) additional page will be allowed but will incur additional page charges for publication of the camera-ready version. Papers with more than six (6) pages will not be reviewed. Submissions must use double column format, including tables, figures, and references, with a font no smaller than 10 points. Please use the [Transactions stylesheet template](#) provided by IEEE to assure that your submission meets our guidelines. Papers must be submitted in PDF format through the EDAS conference system by selecting the "ICC'11 - Workshop" "Submit" link at the [EDAS paper submission website](#) and then selecting "IEEE ICC 2011 Workshop on Green Communications". Accepted papers will appear in the ICC workshop proceedings and will be included in IEEE Xplore. At least one of the authors of accepted papers must attend the workshop to present its paper. Papers are to be submitted no later than **15 October 2010**. For any question or problem related to the paper submission process, please contact [quittek@nw.neclab.eu](mailto:quittek@nw.neclab.eu) with e-mail Subject: ICC11 workshop submission problem.

### Important Dates

Paper Submission Deadline  
**15 October 2010**  
Acceptance Notification  
15 January 2011  
Camera Ready Version Due  
15 February 2011  
Workshop Date  
9 June 2011

