

Green Communications

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Industry Forum

[2012 IEEE International Conference on Communications](#)**Webcast URL:**`javascript:openWin('https://dl.comsoc.org/comsocdl/DRM-authentication.action?path=LoginUser&tutorialid=924040','500','700','Shopping Cart')`**Status:**

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109minutes

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As the positive responses to global climate warming, the research and development of Green Communications and Computing have attracted extensive involvements from both industry and academia. The Technical Subcommittee on Green Communications and Computing (TSCGCC), the IEEE Communications Society, has been newly established as the dedicated Technical Subcommittee in this specific emerging research area (<http://www.comsoc.org/about/committees/emerging#gcc>). The urgent needs and challenges of energy-sustainable, resource-saving, and environment-friendly green communications and computing technologies are introduced by simultaneously increasing trends of energy costs and communications bandwidths impacting ecological and economic activities around the world. Significant energy consumption reduction in the information & communications applications may be achieved through the innovative use of new architectures, protocols, and algorithms, which may fundamentally change concepts, structure, and designs of conventional communication and computing systems. Research in energy-efficient green communications and computing is interdisciplinary in nature, since the motivation is to obtain energy efficiency from various areas and levels of communication infrastructures and systems.

This panel will discuss various aspects of above mentioned issues. The panel speakers are several leading experts in the promising, important, and exciting topics on green communications and computing, who will present and discuss a number of paradigm-shifting technical approaches can be expected. This panel may bring the broad and in-depth vision of the emerging areas to the audiences in both industrial and academic perspectives.

As one of the leading enthusiastic efforts in promoting the research and development of green

communications and computing, we definitely feel that this panel will be both informative and entertaining the ICC 2012 audiences.

Presentations:

Energy Trade-Offs for Next Generation Services

Daniel Kilper, Bell Laboratories, USA

Green Wireless Access Employing Fiber-connected Massively Distributed Antenna Systems

Victor Leung, University of British Columbia, Canada

Recent Progresses in Green Radio Communications

Shugong Xu, Huawei Technologies, China

Cognitive Green Communications: When Energy Meets Intelligence

Honggang Zhang, Zhejiang University, China

Fundamental limits of energy efficiency in the presence of QoS constraints and physical-layer security considerations

Mustafa Cenk Gursoy, Syracuse University, USA

A High Level View of Green Communications and Computing

Jinsong Wu, Bell Laboratories, China

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