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Special Issue on
"Energy-efficient Networking"

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Overview
Fueled by the increasing popularity of the Internet and evermore bandwidth-hungry services, networking technologies constitute one of the most fast growing areas in the field of the IT industry. This fast growth has led to a point where the energy expenditure of networking infrastructure constitutes a significant portion of the total energy expenditure and moreover, the trend is towards an additional increase. Thus, the development of energy efficient networking technologies for the various segments (backbone and access parts) of today's Internet has recently emerged as a significant research area. The primary focus of such green technologies, is towards reduction of the energy footprint of the networking infrastructure, thus enabling sustainable development, low operational costs and environmental safety.

The objective of this special issue is to report state-of-the art results in energy-efficient networking protocols by welcoming contributions originating from both academic and industrial research. These should be original contributions solicited in relevant areas of energy-efficient networking protocols.

Topics (Areas of interest for this special issue include the following topics):

- Algorithms for energy-efficient design and operation of optical backbone networks
- Energy-efficient protocols for optical access networks
- Energy-efficient protocols in wireless networking
- Energy-efficient MAC protocols
- Energy-Efficient Protocols for mobile networks,
- Energy-Efficient Protocols for sensor networks
- Energy-efficient protocols in machine to machine networks
- Energy-efficient protocols in RFID networks
- Energy-efficient routing protocols
- Energy-efficient transport protocols
- Adaptive energy-efficient protocols

- Performance evaluation studies of energy-efficient solutions
- Tools and models for energy-efficient network design
- Application and implementation issues

Schedule

Manuscript due date: November 30, 2014
Decision notification: January 30, 2015
Submission of final manuscript: February 20, 2015
Tentative Publication date: Fourth Quarter, 2015

Submission & Review Instruction

Submitted articles must not have been previously published or currently submitted for journal publication elsewhere. Submissions must be submitted via IJCS submission system: http://mc.manuscriptcentral.com/ijcs. Please mention "SI on Energy Efficient Nets" as the special issue title in the covering letter and also in the appropriate fields of the online form which requests this information, including selecting it as the manuscript type. Paper submissions must conform to the layout and format guidelines in international journal of communication systems. Instructions for Contributors are in: http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1131/homepage/ForAuthors.html.

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