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SPECIAL ISSUE ON
Green Energy and Networking (Greenets2019)

Overview:

Computer networks, communication systems, and other IT infrastructures have caused severe environmental problems by consuming significant amounts of power, increasing greenhouse gas emissions, and lead to pollution during the production and disposal. To reduce such environmental problems and create a sustainable environment, energy saving technologies recently attracted significant attention from academia and industry, new energy models, algorithms, methodologies, platforms, tools and systems are pressing. Although these emerging techniques have drawn considerable attention and have been studied recently, there are still many open theoretical and practical problems to be addressed. Specifically, most of the existing works have focused on optimizing a single objective, such as energy efficiency. Since there are multiple conflicting objectives, multi-objective strategies are required to be considered in order to achieve a good tradeoff among the conflicting objectives. This special issue aims to provide a comprehensive overview of the state of the art in theory and practice in green communication and networking, IoT, light and lighting systems, etc., which will bring together researchers from academia and industry to promote the research and development needed to address the major challenges that pertain to this cutting-edge research topic.

Topics

Topics of interest include, but are not limited to, the following scope:

- Green Communication	- Energy-efficient Networking
- Energy-efficient Heterogeneous Networks	- Green Ad Hoc Networks
- Energy-efficient 5G Technologies	- Green Wireless Communications and Networking
- Energy-efficient Signal Transmission and Reception	- Green Smart Grid
- Green Communications	- Green Internet of Things
- Low-power Sensor Networks	- Energy awareness in Big Data Processing and Storage
- Green and ubiquitous computing in IoT	- Green Signal Processing and Cloud Computing

Important Dates

- **Manuscript submission deadline: Jan 15, 2019**
- **Notification of acceptance: Feb 15, 2019**
- **Submission of final revised paper: Mar 15, 2019**
- **Publication of special issue (tentative): Autumn, 2019**

Submission Procedure

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>. A copy of the manuscript should also be emailed to the Guest Editors at the following email address(es) : *blade@hit.edu.cn*

Guest Editors:

Prof. Fan-Yi Meng, Harbin Institute of Technology, China



Fan-Yi Meng (S'07–M'09–SM'15) received the B.S., M.S., and Ph.D. degrees in electromagnetics from the Harbin Institute of Technology, Harbin, China in 2002, 2004, and 2007, respectively. Since August 2007, he has been with the Department of Microwave Engineering, Harbin Institute of Technology, where he is currently a Professor. He has coauthored four books, 40 international refereed journal papers, over 20 regional refereed journal papers, and 20 international conference papers. His current research interests include antennas, electromagnetic and optical metamaterials, plasmonics, and electromagnetic compatibility (EMC). Dr. Meng was a recipient of several awards including the 2013 Top Young Innovative Talents of Harbin Institute of Technology, the 2013 CST University Publication Award, the 2010 Award of Science and Technology from the Heilongjiang Province Government of China, the 2010 “Microsoft Cup” IEEE China Student Paper Contest Award, two Best Paper Awards from the National Conference on Microwave and Millimeter Wave in China (2009 and 2007, respectively), the 2008 University Excellent Teacher Award of the National University of Singapore, the 2007 Excellent Graduate Award of Heilongjiang Province of China, and the Outstanding Doctor Degree Dissertation Award of the Harbin Institute of Technology.



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Mobile Networks and Applications

The Journal of SPECIAL ISSUES on Mobility of Systems,

Users, Data and Computing

Editor-in-Chief: Chlamtac, I.

ISSN: 1383-469X (print version)

ISSN: 1572-8153 (electronic version)

Journal no. 11036