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SPECIAL ISSUE ON
Networking and Communications for the Next Generation IoT

Overview:

Recent years, both cellular networks and wireless local area networks (WLAN) pay great attentions to the next generation Internet of Things (NG-IoT) to meet the demands of the massive connectivity and ubiquitous networking. Several solutions have been proposed such as the narrow band IoT (NB-IoT), LORA, LPWAN, Zigbee, Bluetooth, and IEEE 802.11 based IoT. Networking and communications technology is one of the most important technologies for IoT. This is because each IoT device cannot exchange information with Internet or other IoT devices without networking and communications. However, the increasingly diverse services, continuously growing data, and ever-increasing devices pose significant challenges for networking and communications. Therefore, the networking and communications technologies for the NG-IoT need to be fully designed and further studied urgently. Therefore, this Special Issue focuses on the networking and communications technologies for the NG-IoTs.

The special issue focuses on networking and communications technologies for the next generation IoT.

Topics

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

- Network architectures	- QoS guarantee technology
- Ultra-dense networking technology	- Multi-media technology
- Routing algorithms and protocols	- Information acquisition and processing technology based on AI/ML/DL
- Multiple access control technology	- Big data
- PHY technology	- Cloud computing, fog computing, and edge computing
- New waveforms	- Green Networking
- 5G enabling IoT technology	- Sensor networking
- 802.11 based IoT technology	- IoT for space communications and networking
- M2M and V2X	- IoT as a service
- IoT Standardization	
- Ad Hoc networking	
- Key technologies for NB-IoT	

Important Dates

- **Manuscript submission deadline: October 18, 2018**
- Notification of acceptance: December 18, 2018
- Submission of final revised paper: February 18, 2019
- Publication of special issue (tentative): 2st or 3nd Quarter, 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): libo.npu@nwpu.edu.cn.

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Dr. Bo Li received the B.S., M.S. and Ph.D degrees in communications engineering from Xidian University, Xi'an, China, in 1994, 1996 and 2002, respectively. From 1997 to 1998, he was selected to study in the Electrical Engineering Department of Shizuoka University in Japan as an exchange student. From 2002 to 2004, he was a Postdoctoral Researcher at the University of Trento, Trento, Italy. In 2007, as a visiting professor, he visited the CITI LAB of INSA LYON for 6 months. He is currently with the School of Electronics and Information Engineering, Northwestern Polytechnical University, Xi'an, China, as a Full-Time Professor. He has authored about 80 research papers in the area of wireless communications and networking. Among these papers, some are published on famous international journals, such as, the IEEE Transactions on Vehicular Technology, the IEEE Communication Letters, and the International Journal of Computer Networks and so on. Moreover, these papers are cited by other authors for over 200 times. His current research interests include broadband wireless mobile networks, wireless local area networks, multimedia wireless communication networks, cross-layer design of wireless communications systems and resource allocations. In the above research areas, he is holding 13 authorized invention patents.

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Dr. Li has served as General Chair, TPC Chair, TPC Member for several international workshops and conferences, and he is on the editorial board of two IEEE journals. His papers have total citations more than 3600 (six papers exceed 100 citations, Google Scholar). Among them, eight are ESI Highly Cited Papers in Computer Science, and four receive conference Best Paper (run-up) Awards. He received IEEE 2016 ComSoc Asia-Pacific Outstanding Young Researchers and Young Talent Program of China Association for Science and Technology.

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