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SPECIAL ISSUE ON

Recent Advances in Wireless Internet

Overview:

This special issue focuses on the discussion on novel research results related to the emerging wireless internet. Novel IT industry evolution improves people's life and brings economic benefits using innovative technologies of the Internet of Things (IoT), edge/fog computing, cloud computing, social networks, vehicular ad hoc networks, AI, and big data. Due to amount of heterogeneous wireless and IoT devices deployed in open environment, and intensive data stream generation, the research issues on wireless network and Internet technology for development in various industries and smart city have many challenges need to overcome. This special issue focuses on all recent advances in wireless networks and Internet technology in various industries and smart city. Original submissions, not under any concurrent reviews, are solicited in all areas related to advances on applications, methods and approaches envisioning to address the new challenges in wireless network and Internet technology.

Topics

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

- Convergence and interworking of heterogeneous wireless networks,
- Vertical handoff and seamless roaming,
- Mobile P2P networking, systems, and applications,
- Next generation Internet services and applications
- Clean-slate wireless Internet architecture,
- Interaction among PHY/MAC, routing, and congestion control,
- PHY-aware wireless scheduling,
- QoS provisioning over Multimedia wireless networks
- Multiple access technology (OFDMA, CDMA, and TDMA),
- WLANs, WiMAX, satellite, 3G and Beyond,
- QoS management and traffic modeling,
- Algorithm design and performance analysis
- Wireless sensor, ad hoc, and mesh networks,
- Cooperative and relay networks
- IMT2000, UMTS, LTE, IMT-Advanced networks,
- Vehicular ad hoc networks (VANET),
- Wireless access in vehicular environment (WAVE),
- Dedicated short-range communications (DSRC),
- Cognitive radio networks,

- Context-aware mobile network,
- Wireless body area networks (WBANs),
- Tele-medicine/e-health networks
- Architectural support for security,
- Security, privacy, and dependability issues,
- Security in cooperative networks,
- Social networks,
- Testbeds and simulation tools,
- Middleware, operating system, and programming languages,
- Experimental measurements
- Green wireless network architectures and communication protocols,
- Green applications by wireless communications and mobile computing technologies,
- Energy-efficient mobile and wireless networks,
- Network planning and optimization for green wireless networking,
- Next generation industrial IoT services and applications,
- AI techniques in wireless networks,
- Big data analysis in wireless internets.

Important Dates

- Manuscript submission deadline: December 31, 2018
- Notification of acceptance: March 31, 2019
- Submission of final revised paper: April 30, 2019
- Publication of special issue (tentative): 4th 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/. Authors may find useful information about lay-out and text formatting guidelines on http://www.springer.com/engineering/signals/journal/11036 — kindly click the "Instruction for Authors" in the box on the right side. A copy of the manuscript should also be emailed to the Guest Editors at the following email address: djdeng@cc.ncue.edu.tw. When submitting papers, authors should choose article type as "**SM 240 - Recent Advances in Wireless Internet / (WICON 2018)**". Authors need to register to submit their papers. The "Subject field" of the email must contain "MONET WiCON 2018 Paper - ". Authors whose selected papers have been accepted and presented at the WiCON 2018 (http://wicon.org/) are invited to submit an extended and revised version of their papers to this special issue. The papers must have at least 30% new material compared to the conference paper.

Guest Editors:

Prof. Der-Jiunn Deng, National Changhua University of Education, Taiwan (E-mail: djdeng@cc.ncue.edu.tw)
Dr. Xun Yang, Huawei Technologies Co., Ltd., China (E-mail : david.yangxun@huawei.com)
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Der-Jiunn Deng (M'10) received the Ph.D. degree in electrical engineering from the National Taiwan University in 2005. He joined the National Changhua University of Education as an Assistant Professor in the Department of Computer Science and Information Engineering in August 2005 and then became a Distinguished Professor in August 2016. In 2010, 2011, and 2012, he received the Research Excellency Award of National Changhua University of Education. In 2012 and 2015, he also received the Outstanding Faculty Research Award of National Changhua University of Education. His research interests include multimedia communication, quality-of-service, and wireless networks. Dr. Deng served or is serving as an editor and guest editor for several technical journals. He also served or is serving on several symposium chairs and technical program committees for IEEE and other international conferences. Dr. Deng is a member of the IEEE.

Xun Yang received his B.S. and Ph.D degrees in Communications, from BUPT (Beijing University of Posts and Telecommunications), Beijing, P. R. China, in 2003 and 2008, respectively. He joined Huawei Technologies Co.,Ltd. as a research engineer in July 2008 and then became a principal engineer in May 2017. He has been working on IEEE802.11 standards since 2010, including 802.11ac, 802.11ah, 802.11ax and 802.11ba. He was the secretary of 802.11ac and PHY ad-hoc co-chair of 802.11ah. He is the MU ad-hoc co-chair of 802.11ax. His research interests include system design of WLAN and its related applications.

Mohammed Atiquzzaman (Senior Member, IEEE) obtained his M.S. and Ph.D. in Electrical Engineering and Electronics from the University of Manchester (UK) in 1984 and 1987, respectively. He currently holds the Edith J Kinney Gaylord Presidential professorship in the School of Computer Science at the University of Oklahoma. Dr. Atiquzzaman is the Editor-in-Chief of Journal of Networks and Computer Applications, the founding Editor-in-Chief of Vehicular Communications, and serves/served on the editorial boards of many journals including IEEE Communications Magazine, Real-Time Imaging Journal, International Journal of Communication Networks and Distributed Systems and Journal of Sensor Networks and International Journal of Communication Systems. He co-chaired the IEEE High-Performance Switching and Routing Symposium (2003, 2011), IEEE Globecom and ICC (2014, 2012, 2010, 2009, 2007, 2006), IEEE VTC (2013)   and the SPIE Quality of Service over Next Generation Data Networks conferences (2001, 2002, 2003). He was the panels co-chair of INFOCOM'05, and is/has been in the program committee of many conferences such as INFOCOM, Globecom, ICCCN, ICCIT, Local Computer Networks, and serves on the review panels at the National Science Foundation. He is the current Chair of IEEE Communication Society Technical Committee on Communications Switching and Routing.

Dr. Atiquzzaman received the 2018 Satellite and Space Communications Technical Recognition Award (IEEE) for "valuable contributions to the Satellite and Space Communications scientific community", the 2017 Distinguished Technical Achievement Award (IEEE), for "outstanding technical contributions and services in the area of communications switching and routing". He was honored with the IEEE Communication Society's Fred W. Ellersick Prize and NASA Group Achievement Award for "outstanding work to further NASA Glenn Research Center's effort in the area of Advanced Communications/Air Traffic Management's Fiber Optic Signal Distribution for Aeronautical Communications" project. He is the co-author of the book "Performance of TCP/IP over ATM networks" and has over 300 refereed publications, available at www.cs.ou.edu/~atiq.

His current research interests are in areas of transport protocols, wireless and mobile networks, ad hoc networks, satellite networks, power-aware networking, and optical communications. His research has been funded by National Science Foundation (NSF), National Aeronautics and Space Administration (NASA), and U.S. Air Force, Cisco, and Honeywell.