SPECIAL ISSUE ON
Innovation and Application of Internet of Things for Smart Cities

Overview:

   With continuous advances in novel ICT technologies (including Internet of Things (IoT), artificial intelligence (AI), cloud/fog/edge computing, mobile Internet, and smart terminals), smart cities have provided citizens a more convenient and smarter life with sustainable innovation, including client innovation, open innovation, public innovation, and cooperative innovation. A variety of value-added IoT applications for smart cities have been emerging, e.g., smart home, smart healthcare, smart transportation, smart energy management, smart retailing, smart grid, water system, smart building, smart factory, smart office, air pollution control, and so on. All the sensed information and facilities collaborate together to form economic and effective interaction, providing people with better working efficiency and life quality. Enhanced by ICT technologies, the public municipal services not only improve the government's performance, but also provide citizens with better life quality. Therefore, it has been an important indicator for every country in the world to improve city competitiveness through developing smart cities.

   This special issue focuses on the discussion on novel research results related to the recent advances in the innovation and application of IoT for smart cities. The recent development of the IoTs, fog/edge computing, and AI technologies for smart cities makes daily life much convenient and drives a variety of applications. However, it also leads to a more enormous, dynamic, and heterogeneous networking environment, along with a large amount of data being generated. Therefore, novel techniques in the IoT are required to solve various challenging issues in such a networking environment. This special issue focuses on all recent development in IoT technologies in various applications. 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 IoT technologies.

Topics

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

- Industrial IoT services and applications,
- Cloud/fog/edge computing technologies and applications,
- The Internet of vehicles and applications,
- Energy-efficient mobile and wireless networks,
- Green IoT architectures and communication protocols,
- Green applications by IoT and mobile edge computing technologies,
- Network planning and optimization for green IoT networking or edge computing,
- WLANs and IoT,
- Wireless sensor, ad hoc, and mesh networks,
- D2D networks and applications,
- IoT and healthcare applications,
- Wireless body area networks (WBANs),

- IoT and energy management,
- Multi-criteria and multi-objective IoT or sensor network management and applications,
- Convergence of heterogeneous IoT networks,
- Security, privacy, and dependability issues,
- Security in cooperative IoT networks,
- Architectural support for security,
- Cognitive radio and 5G for IoT
- Fault tolerance and monitoring in IoT
- AI techniques in the IoT,
- Big data analysis in the IoT,
- Blockchain technologies in the IoT,

Important Dates

- Manuscript submission deadline: August 15, 2019
- Notification of acceptance: November 15, 2019
- Submission of final revised paper: December 15, 2019
- Publication of special issue (tentative): 4th Quarter, 2020

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 255 – Innovation and Application of Internet of Things for Smart Cities / (WiCON 2019)**". Authors need to register to submit their papers. The "Subject field" of the email must contain "MONET WiCON 2019 Paper - ". Authors whose selected papers have been accepted and presented at the WiCON 2019 (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)

Prof. Abderrahim Benslimane, University of Avignon, France
(E-mail: abderrahim.benslimane@univ-avignon.fr)

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.

Abderrahim Benslimane received the B.S. degree from the University of Nancy in 1987, the DEA (M.S.) degree from the Franche-Comte University of Besançon in 1989, and the Ph.D. degree in 1993, all in computer science. He has been a Professor of computer science with Avignon University, France, since 2001. He was a Technical International Expert with the French Ministry of Foreign and European Affairs from 2012 to 2016. He served as a Coordinator with the Faculty of Engineering, French University, Egypt. He is Editor in Chief of Multimedia Intelligence and Security Inderscience Journal, Area Editor of Security IEEE IoT Journal, Area Editor of Security and Privacy Wiley Journal and EB member of several other journals.

His research interests are in development of communication protocols with the use of graph theory for mobile and wireless networks. He was a recipient of the French Award of Doctoral Supervisions from 2017 to 2021 and attributed the French Award of Scientific Excellency from 2011 to 2014. He was a recipient of the title to supervise researches (HDR 2000) from the University of Cergy-Pontoise, France. He served as a Symposium Co-Chair/Leader in many IEEE international conferences such as ICC, GLOBECOM, AINA, and VTC. He is currently the Chair of the ComSoc TC of Communication and Information Security. He has been an Associate Professor with the University of Technology of Belfort-Montbéliard since 1994.