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**SPECIAL ISSUE ON**  
***Recent Advances in IoT as a Service***

**Overview:**

As we are striding into the initial era of the Internet of Things (IoT), a key question is how we make the most of IoT for all stakeholders, including platform providers, IoT application developers, end-users, large and small organizations (such as city councils, enterprises) that wish to provide better services, and manufacturers of smart devices. The amount of smart devices immersed in everyday life, from manufacturing to clothing, is growing every day in terms of power, processing and network connectivity. The sheer size and variety of contextual data that they produce, along with the actions they can take on their environment, is enormous. It remains to be answered how all this potential will come to bear; this special issue focuses on the discussion on the challenges posed by these trends.

The “Everything as a Service” deployment paradigm will enable the easy adoption of IoT based services and applications by end users, while forcing providers of smart objects and middleware platforms to architect their solutions accordingly. To maximize impact and adoption, the barrier-to-entry should be lowered by making development of new applications and the ingestion and exposure of smart objects as easy as possible. 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 the IoT as a service.

**Topics**

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

<ul style="list-style-type: none"><li>- Smart objects as a service</li><li>- IoT marketplace—for offering IoT based applications and services</li><li>- API economy – for easier and tighter integration</li><li>- Semantic Web technologies for IoT: registry, storage</li><li>- IoT delivery platforms – existing and emerging platform and architectures for exposing and interacting with IoT</li><li>- Federated IoT support</li><li>- Non Functional Requirements (NFR) for IoT – security, scalability, responsiveness and more</li></ul>	<ul style="list-style-type: none"><li>- Standardization – standard areas needed</li><li>- Business models</li><li>- IoT DevOps</li><li>- IoT context based analytics</li><li>- IoT application deployment success stories</li><li>- Mobile First IoT: mobile backend as a services (MBaaS) and smartphone as data prosumers</li></ul>
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**Important Dates**

- **Manuscript submission deadline: August 31, 2017**
- Notification of acceptance: November 15, 2017
- Submission of final revised paper: January 25, 2018
- Publication of special issue (tentative): 3<sup>rd</sup> Quarter, 2018

## 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: [djdeng@cc.ncue.edu.tw](mailto:djdeng@cc.ncue.edu.tw). When submitting papers, authors should choose article type as “**SM 208 – Recent Advances in IoT as a Service (IoTaaS 2017)**”. Authors need to register to submit their papers. The "Subject field" of the email must contain "MONET IoTaaS 2017 Paper - ". Authors whose selected papers have been accepted and presented at the IoTaaS 2017 (<http://iotaas.org/2017/>) 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](mailto:djdeng@cc.ncue.edu.tw))

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Prof. Lajos Hanzo, University of Southampton, United Kingdom ([lh@ecs.soton.ac.uk](mailto:lh@ecs.soton.ac.uk))



**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.



**Ai-Chun Pang** received the B.S., M.S. and Ph.D. degrees in Computer Science and Information Engineering from National Chiao Tung University, Taiwan, in 1996, 1998 and 2002, respectively. She joined the Department of Computer Science and Information Engineering (CSIE), National Taiwan University (NTU), Taipei, Taiwan in 2002. She is now a Professor in CSIE and INM, and is also an Adjunct Research Fellow of Research Center for Information Technology Innovation, Academia Sinica, Taiwan. Her research interests include the design and analysis of wireless and multimedia networking, mobile communications, and fog/edge computing. She is a senior member of the IEEE.



**Lajos Hanzo** received his Masters degree in electronics in 1976 and his Doctorate in 1983 from the Technical University of Budapest. In 2010 he was awarded the university's highest honour, namely the Honorary Doctorate "Doctor Honoris Causa". Since 1986 he has been with the University of Southampton, UK and in 2004 he was awarded the Doctor of Sciences (DSc) degree. During his 36-year career in telecommunications he has held various research and academic posts in Hungary, Germany and the UK. Since 1986 he has been a member of academic staff in the School of Electronics and Computer Science, University of Southampton, UK, where he currently holds the Chair in Telecommunications and he is head of the Communications Research Area. He is also a Chaired Professor at Tsinghua University, Beijing, China.

Lajos Hanzo has co-authored 20 John Wiley/IEEE Press books totalling about 10 000 pages on mobile radio communications, and published 1200+ research papers and book chapters at IEEE Xplore. He has also organised and chaired major IEEE conferences, such as WCNC'2006, WCNC'2009, VTC'2011, presented Tutorial/overview lectures at international conferences. He presented a number of named lectures and keynotes.

Lajos is also an IEEE Distinguished Lecturer of both the Communications Society and the Vehicular Society as well as a Fellow of both the IEEE and the IEE/IET, Fellow of the Royal Academy of Engineering (FREng). He is acting as a Governor of the IEEE VTS as well as of ComSoc. Lajos is the Editor-in-Chief of the IEEE Press. He has been awarded a number of distinctions, most recently the IEEE Wireless Technical Committee Achievement Award (2007), the IET Sir Monti Finniston Achievement Award across all disciplines of engineering (2008) and an Honorary Doctorate of the Technical University of Budapest (2010). His most recent paper awards are: WCNC'2007 in Hong Kong, ICC'2009 Dresden and ICC'2010 Cape Town.

Currently he heads an academic research team working on a range of research projects in the field of wireless multimedia communications aiming for flawless telepresence, supported by rich three-dimensional audio/video communications. His research is sponsored by industry, the Engineering and Physical Sciences Research Council (EPSRC) UK, the European IST Programme and the Mobile Virtual Centre of Excellence (VCE), UK. He is an enthusiastic supporter of industrial and academic liaison and he offers a range of industrial courses. For further information on research in progress and associated publications please refer to <http://www.ecs.soton.ac.uk/people/lh> and <http://www-mobile.ecs.soton.ac.uk/newcomms/?q=node/168>.



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