

# ICTC 2017

October 18-20, 2017 | Lotte City Hotel Jeju, Jeju Island, Korea

**Early Registration Deadline: October 8, 2017**

## ICT Convergence Technologies Leading the Fourth Industrial Revolution

ICTC is a unique global premier event for researchers, industry professionals, and academics, organized by KICS, Korea, with the technical co-sponsorship of IEEE and IEICE, which aims at interacting with and disseminating information on the latest developments in the emerging industrial convergence centered around the information and communication technologies.

### KEYNOTE SPEECHES

**"Integrating IoT into Multi-tier Cloud Computing"**

Prof. Alberto Leon-Garcia, University of Toronto

**"Intelligent GiGA Infra as the 4th Industrial Revolution Enabler"**

Dr. Dong-myun Lee, CTO, KT, Korea

**"IoT as a Driver for the Next Wave of ICT Convergence"**

Prof. Max Mühlhäuser, TU Darmstadt, Germany

**"Limits and applicability of UWB Impulse Radio Technology in Cyber-Physical Systems, In-Car Communications and Biomedical Applications"**

Prof. Geza Kolumban, Pázmány Péter Catholic University, Hungary

**"Fueling the Next Technical Revolution with 5G"**

Dr. Durga Malladi, SVP, Qualcomm, USA

### PAPER SESSIONS

- Wireless & Mobile Communication Systems and Infrastructure
- 5G, 4G, LTE, LTE-Advanced, WLAN, WPAN, WBAN
- Communication Networks and Future Internet Technologies
- Information & Communication Theory, and Their Applications
- Mobile Cloud Computing & Communication Systems and Applications
- Smart Media & Broadcasting, and Smart Devices/Appliances
- Green Communication Technologies and Solutions
- Indoor Positioning and Navigation Systems
- Energy Internet, Smart Grid Infrastructure and Applications
- Maritime Communications Systems & Networks
- Vehicular Information and Communication Technologies
- u-Healthcare Systems, and Bio-informatics & Its Applications
- Military and Defense Technologies
- SDN and Network Virtualization
- CCN/CDN/ICN/Delay-tolerant networks
- Public Protection & Disaster Relief (PPDR) Communication
- Internet of Things (IoT), Internet of Everything (IoE), Web of Objects (WoO)
- Machine-to-Machine (M2M) and D2D Communications
- Encryption and Security for ICT Convergence
- Signal and Image Processing
- Smart Cities
- Mobile S/W and Data Science
- Big Data and Smart Computing
- Intelligent Transportation Systems
- Artificial Intelligence and Machine Learning
- Other Services and Applications for ICT Convergence

Organized by KICS

Technically Co-Sponsored by IEEE ComSoc, IEICE-CS

Patronized by Ministry of Science and ICT, ETRI, Samsung Electronics, LG Electronics, SK Telecom, Posco ICT, National Instruments, GSI, Huawei, InterDigital, Multi Screen Service Forum, Society Safety System Forum, Jeju DVB, Jeju Special Self-Governing Province

For registration, please visit [www.ictc2017.org](http://www.ictc2017.org).

ICTC 2017 Secretariat

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### INDUSTRIAL SESSIONS

**"Convergence of IoT and Cloud Computing Made Intelligent Home a Reality"**

Dr. Minkyong Kim, VP, Digital Appliances Business, Samsung Electronics, Korea

**"Automated Driving and the Future of Individual Mobility"**

Mr. Jae Kyun Chang, Head of Interior S&T Korea, Continental Automotive Korea

**"Toward 5G Deployment in 2020"**

Mr. Takehiro Nakamura, VP and General Manager of 5G Laboratory, NTT DOCOMO, INC., Japan

**"Securing the Next Generation: 5G IoT Security"**

Dr. Anand Prasad, Chief Advanced Technologist, NEC Corporation, Japan

### SPECIAL SESSIONS

**Special Session I: Systems & Applications**

**"Providing Usability Support for Mobile Applications in a Vehicular Environment"**

Dr. Kyungmin Lee, Facebook, USA

**"Mobile Deep Learning Framework for Continuous Vision Sensing"**

Prof. Youngki Lee, Singapore Management University, Singapore

**"Enabling Customized Data Management on Mobile Systems"**

Prof. Steve Ko, University at Buffalo, USA

**Special Session II: ITS & V2X**

**"Turbo Controller Area Network (Turbo CAN): Next Generation In-Vehicle Networking Supporting +100Mbps and Being Compatible with CAN"**

Prof. Ji-Woong Choi, DGIST, Korea

**"NTU-NXP Smart Mobility Test-Bed: A Campus-Wide Infrastructure for Connected Cars"**

Dr. Yong Liang Guan, NTU Singapore, Singapore

**"V2X Channel Characteristics: Guidelines for Designing V2X Service Applications"**

Prof. Dong Seog Han, KNU, Korea

**Special Session III: IoT**

**"A More Intuitive Way to Control IoT Devices in Proximity"**

Prof. Kyunghan Lee, UNIST, Korea

**"Calibrating Time-variant, Device-specific Phase Noise for COTS WiFi Devices"**

Prof. Sangtae Ha, University of Colorado, USA

**"Enabling Internet of Things: Observation, Challenges and Sensing Communication Technology"**

Prof. D. Singh, HUFS, Korea

**Special Session IV: 5G Models and Technologies**

**"5G Technology Overview"**

Dr. Taeyoung Kim, Samsung Electronics, Korea

**"5G – Massive, Ultra-Dense, and Cloud Computing"**

Prof. Tony Quek, SUTD, Singapore

**"Programmable and Agile Wired Infrastructure for 5G"**

Dr. Sueng Yong Park, Kulcloud, Korea

**Special Session V: Artificial Intelligence & Machine Learning**

**"Gauging Variational Inference"**

Prof. Jinwoo Shin, KAIST, Korea

**"From Big Data to Precision Oncology using Interpretable Machine Learning"**

Prof. Su-In Lee, University of Washington, USA

**"Exobrain: Natural Language Understand and Question Answering SW"**

Dr. Kyoungman Bae, ETRI, Korea

**Special Session VI: Challenges and Opportunities in UAV Networks and Applications**

**"UAVs and Their Potential in Delivering IoT Services"**

Prof. Tarik Taleb, Aalto University, Finland

**"Surprise AI — A Novel Approach for Self-Monitoring/Alerting Intelligent Drones (and Self-Driving Cars, too!)"**

Dr. Bo Ryu, EpiSys Science, USA

**"UAV Management System Based on IoT Platform and U2X Networks"**

Dr. Jaeho Kim, KETI, Korea