iCTC 2018
iCTConvergence
Symposium

"ICT Convergence Powered by Smart Intelligence"

October 17-19, 2018
Maison Glad Jeju, Jeju Island, Korea

Organized by

KICS
The Korean Institute of
Communications and
Information Sciences

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Jeju CVB Jeju Convention & Visitors Bureau

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October 17th (Wednesday), 2018

Special Session I : Enabling Technologies for 5G — Crystal Hall 1 — 09:00-10:40

PoCs and Challenges of Moving Wireless Backhaul for 5G and Beyond
Dr. Hyun Kyu Chung
Research Fellow, Electronics and Telecommunications Research Institute(ETRI), Korea

Wireless Evolution Towards 5G
Prof. Fumiyuki Adachi
Tohoku University, Japan

5G and the Factories of the Future
Prof. Klaus Moessner
5G Innovation Centre (5GIC), United Kingdom

Plenary Session I : Keynote Speeches — Convention Hall, 1st Floor — 11:10-12:30

Smart Healthcare
Prof. Tomoaki Ohtsuki
Keio University, Japan

5G : Transforming Lives and Industries
Dr. Kyungwhoon Cheun
Executive Vice President, Head of R&D, Networks Business, Samsung Electronics Co., Ltd, Korea

Industrial Session I : AI and IoT in Industry 4.0 — Convention Hall, 1st Floor — 14:00-15:30

(Mis)Understanding Humans: Natural Language Understanding in ICT Industry
Dr. Yu-Sung Chang
Senior Vice President, SK Telecom, Korea

Impact of IoT on Industry 4.0
Mr. Soumya Kanti Datta
Research Engineer, Eurecom, France

Cognitive Thinking Machine (CybreBrain) to lead The 4th Industrial Revolution
Mr. O.K. Baek
Research Fellow/ former IBM Architect, ETRI, Korea

Special Session II : Caching and Computing for IoT and IoE networks — Crystal Hall 1 — 16:00-17:40

Interference-Aware Edge Caching: From Fundamental Limits to Practical Designs
Dr. An Liu
Distinguished Research Fellow, Zhejiang University, China

Caching in HetNets: Throughput-Delay Trade-off Perspective
Prof. Sang-Woon Jeon
Assitant Professor, Hanyang University, Korea

Information Theoretic Caching
Dr. Sung Hoon Lim
Principle Researcher, KIOST, Korea

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October 18th (Thursday), 2018

Special Session III : AI and Machine Learning　Crystal Hall 1　08:30-10:10

Selective Inference for Unsupervised Learning and Its Application to Heterogeneous Biomedical Data Analysis
Prof. Ichiro Takeuchi
Nakoya Institute of Technology, Japan

Fully Convolutional Pixel Adaptive Image Denoiser
Prof. Taesup Moon
Sungkyunkwan University, Korea

Machine Learning for Communication Systems
Prof. Jun Won Choi
Hanyang University, Korea

Special Session IV : 5G Systems and Services　Crystal Hall 1　10:30-12:10

Leading 5G Trials to Commercial Reality
Dr. Sungho Jo
Senior Director, Network R&D Center, SKTelecom, Korea

Status of 5G Technologies and Services for Commercialization in KT
Dr. Jemin Chung
Senior Principal Research Engineer, KT, Korea

Trends of 5G Standard in 3GPP
Mr. Ki Bum Kwon
General Manager of Standard Research Office in ITL, Korea

Industrial Session II : 5G toward Industry 4.0　Convention Hall, 1st Floor　13:40-15:00

5G is Now, Together, Creating a Better Future
Dr. Richard Lixiaojun
Head of Huawei 5G E2E Solution Department, Huawei Korea&Japan, China

Nokia 5G Vision and Execution
Dr. Bong Youl (Brian) Cho
Head of Radio Product Management for Asia Pacific and Japan, Mobile Networks, Nokia, Finland

Turn on 5G and Accelerate IoT
Dr. Youngjoon Kim
Head of R&D, Ericsson-LG, Korea

Plenary Session II : Keynote Speeches & ICT Express Best Paper Award Presentation　Convention Hall, 1st Floor　15:30-17:40

How Brain Science Can Help Artificial Intelligence or Information Technology
Prof. Zang-Hee Cho
Endowed Chair Professor & Director, Neuroscience Research Institute, Suwon University, Korea & Advanced Institutes of Convergence Technology, Seoul National University, Korea

Trends and Challenges for Internet of Things
Prof. Joel J.P.C. Rodrigues
National Institute of Telecommunications (Inatel), Brazil

Quantifying Communications Quality: QoS, QoE and QoI
Prof. Nikil Jayant
Emeritus Chaired Professor, Georgia Institute of Technology, USA. & Adjunct Professor, University of California at Santa Barbara, USA.

Non-Invasive Bioelectronics: Going Beyond Today's Wearables (ICT Express Best Paper)
Prof. Alex Casson
University of Manchester, UK

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October 19th (Friday), 2018

Special Session V : Innovations and Trends at Edges　Crystal Hall 1　　08:30-10:10

FogOS: Towards a New Edge Computing Architecture
Prof. Yung Yi
KAIST, Korea

Edge Networking and Orchestration Platform for E2E Network Slicing
Dr. Nakjung Choi
Nokia Bell Lab., USA

A Service Application Platform over IoT Blockchain
Prof. Jae-Hoon Kim
Ajou University, Korea

Special Session VI : Industrial IoT　Crystal Hall 1　　10:30-12:10

Towards Realization of Long-Range Wireless Powered Sensor Networks
Prof. Kae Won Choi
Sungkyunkwan University, Korea

Introduction of mmWave Moving Network
Dr. Ilkyu Kim
Electronics and Telecommunications Research Institute (ETRI), Korea
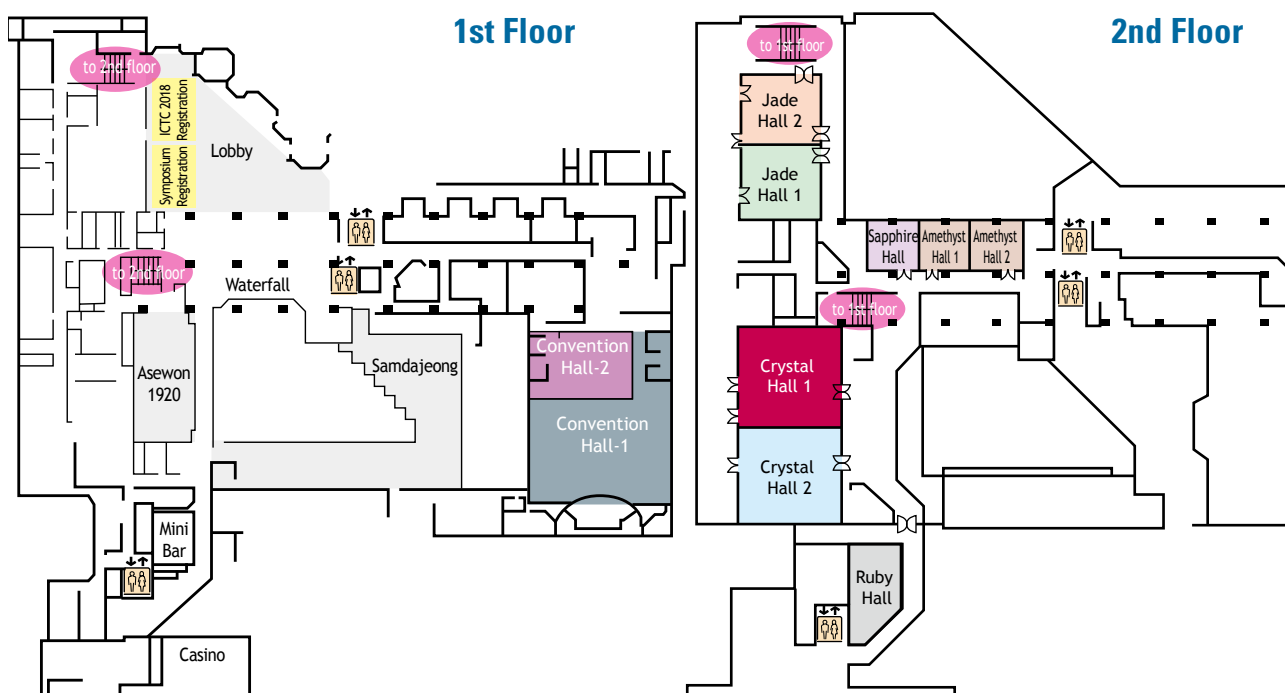
Future of Smart Manufacturing
Dr. Soon-youl Lee
Senior Director, KPMG, Korea

Maison Glad Jeju

1st Floor

2nd Floor

Speakers' bios and summaries are available at **www.ictc.org**