

ICTC 2019



ICTC Convergence Symposium

“ICT Convergence Leading the Autonomous Future”

October 16-18, 2019

Ramada Plaza Hotel, Jeju Island, Korea



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Patrons



ICT Convergence
Korea Forum

Multi-Screen Service Forum
Society Safety System Forum

Jeju CVB
Jeju Convention & Visitors Bureau

Jeju Jeju Special Self-Governing Province



October 16th (Wednesday), 2019

Special Session I : Next Mobile Network

Ramada Ballroom 4 09:00~10:40



Radio and Computing Resource Allocation for Minimizing Total Processing Completion Time in Mobile Edge Computing

Prof. Koichi Adachi

Advanced Wireless and Communication Research Center, University of Electro-Communications, Japan



5G is Now, Together, Make 5G Commercial Success

Dr. Richard Lixiajun

Director of Huawei Technology Strategy Division Korea&Japan



Multi-Armed Bandits and Applications in Communication Networking

Prof. Joohyun Lee

Hanyang University, Korea

Keynote Speeches

Ramada Ballroom 1 11:10~12:30



Commencing the Journey of 5G Commercialization

Dr. Jaeho Jeon

EVP, Head of R&D, Networks Business, Samsung Electronics Co., Korea



Realizing 5G vision

Mr. Håkan Cervell

CEO of Ericsson-LG, Korea

Industrial Session I

Ramada Ballroom 1 14:00~15:30



Securing and Accelerating Industrie 4.0

Mr. Han Tiong Law

APJC Manufacturing Industry Lead, Industry Solution Group, Cisco Systems, USA



AI Connected Healthcare Platform for Next Generation Healthcare

Dr. Sambit Sahu

Manager and Research Scientist, IBM T.J. Watson Research, USA



Convergence of ICT and Mobility in Silicon Valley

Dr. Chang (Charles) Choo

Technical Consultant, Mando Innovations Silicon Valley, USA

Special Session II : 6G Issues and Challenges

Ramada Ballroom 4 16:00~17:40



Plan for Korean 6G R&D

Dr. Sungho Choi

Program manager(PM) for Future Communications & Radio / Institute of Information & Communications Technology Planning & Evaluation(IITP), Korea



Some technical issues and R&D plan for 6G

Dr. Ilgyu Kim

Assistant Vice President, Leader of Future Mobile Communication Research Division, Electronics and Telecommunications Research Institute(ETRI), Korea



Key drivers and research challenges for 6G

Prof. Matti Latva-aho

Director for 6G Flagship, University of Oulu, Finland



October 17th (Thursday), 2019

Special Session III : Quantum and Neural Technologies

Ramada Ballroom 4 08:30~10:10



Post Quantum Cryptography: Generalized Perspective on Lattice and Code Based Cryptography

Prof. Young-Sik Kim
Chosun University, Korea



High-Speed Optimization by Quantum Neural Networks and Its Application in Radio Resource Management

Prof. Mikio Hasegawa
Tokyo University of Science, Japan



A Congestive Heart Failure Detection System with ECG Signals Based on Machine Learning Algorithms

Prof. Hsi-Pin Ma
National Tsing Hua University, Taiwan

Special Session IV : 5G+Critical Communications

Ramada Ballroom 4 10:30~12:10



5G+Mission Critical Services from US government's perspective

Mr. Andrew Boedigheimer-Thiessen
Division Chief, US Dept of Commerce NTIA/ITS, USA



Open ecosystems, key enablers for next generation public safety

Prof. Fidel Liberal
University of the Basque Country / MCOP, Spain



Strategic collaboration among vertical domains for the economy of scale of 3GPP standards-based mission critical solutions

Ms. Hyounhee Koo
CEO of SyncTechno Inc. Korea



Evolution in multi-channel Public Warning Systems

Mr. Chris van Arum
Head of Product management, One2many, Netherland

Industrial Session II

Ramada Ballroom 1 13:40~15:00



5G era and new opportunities

Dr. Jongmin Lee
Vice President, SK telecom, Korea



mmWave breakthrough and 5G new vertical industries / services.

Mr. Andy Park
Sr. Manager, Government Affairs, Qualcomm, Korea



AI-enabled Business Chatbot Applications: From Research and Industry Experiences

Dr. Hyuckchul Jung
Vice President, Wealth Management AI & Knowledge Management Technology, Morgan Stanley, USA

Keynote Speeches

Ramada Ballroom 1 15:30~17:40



Artificial Intelligence and Its Application to ICT

Dr. Myungjoon Kim
President of Electronics and Telecommunications Research Institute(ETRI), Korea



Artificial Intelligence For Wireless Network Optimization

Prof. Khaled B. Letaief
President of IEEE Communications Society, New Bright Professor of Engineering, HKUST, China



October 18th (Friday), 2019

Special Session V : AI based 5G Networks

Ramada Ballroom 4

08:30~10:10



Biomimicry Design as the Sustainable Solution to Human Challenges

Prof. Dosun Shin

Arizona State University, USA



The Evolution of the Internet of Things: Our Challenges and Success Stories

Dr. Jaeho Kim

Director, Autonomous IoT research center, Korea Electronics Technology Institute, Korea



New business development with 5G

Dr. Dongjoo Park

Ericsson-LG, Korea

Special Session VI : Applications of Deep Learning for Networking Systems

Ramada Ballroom 4

10:30~12:10



Towards realization of DNN-based communications

Prof. Ohyun Jo

Chungbuk National University, Korea



Advanced Deep Learning Methods and Their Applications to Distributed and Network Platforms

Prof. Joongheon Kim

Korea University, Korea



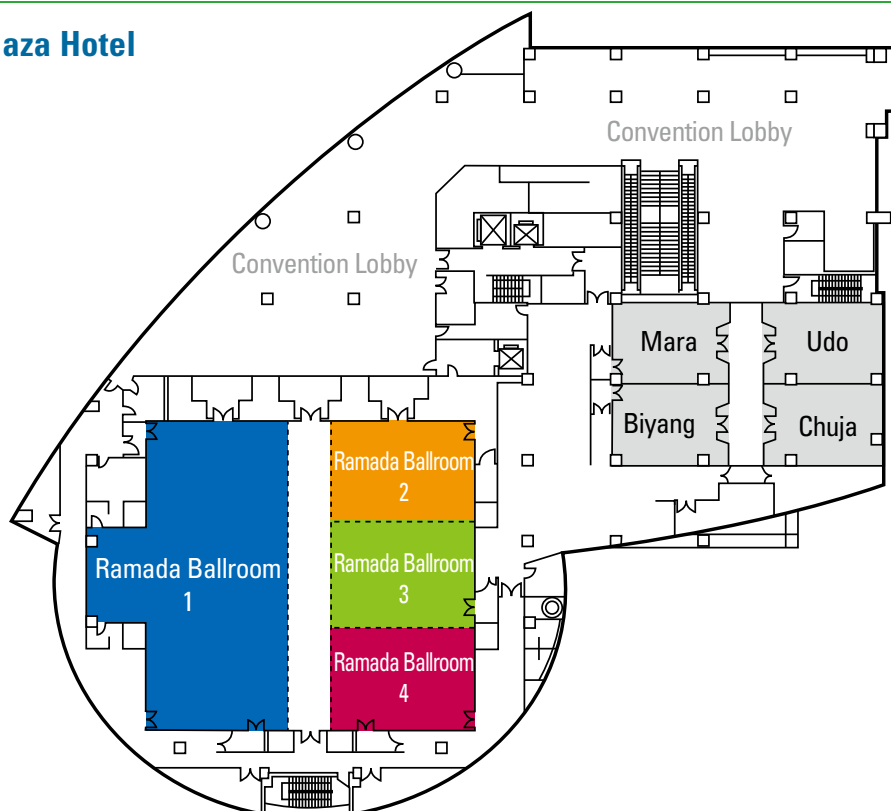
Online Learning for Joint Beam Tracking and Pattern Optimization in Massive MIMO Systems

Prof. Sang-Woon Jeon

Hanyang University, Korea

Ramada Plaza Hotel

2nd Floor



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