The emerging industrial convergence centered around the information and communication technologies. Technical co-sponsorship of IEEE and IEICE, which aims at interacting with and disseminating information on the latest developments in ICT.

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KEYNOTE SPEECHES

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

Artificial Intelligence and Its Application to ICT
Dr. Myungjun Kim, President of Electronics and Telecommunications Research Institute_ETRI, Korea

Artificial Intelligence For Wireless Network Optimization
Prof. Khalid B. Letaief, President of IEEE Communications Society, New Bright Professor of Engineering, HKUST, China

PAPER SESSIONS

- Artificial Intelligence and Machine Learning 1
- 5G, 6G, LTE 1
- Security for ICT Convergence 1
- Internet of Things 1
- u-Healthcare Systems
- Information & Communication Theory
- Network Virtualization and Future Internet Technologies 1
- Security for ICT Convergence 2
- Artificial Intelligence and Machine Learning 2
- 5G, 4G, LTE 2
- Maritime & Military Communications Systems
- Internet of Things 2
- SDN and Network Virtualization
- Big Data and Smart Computing
- Wireless & Mobile Communication Systems 1
- Applications for ICT Convergence 1
- Mobile Cloud Computing & Communication
- Artificial Intelligence and Machine Learning 3
- Network Virtualization and Future Internet Technologies 2
- Energy Internet, Smart Grid Infrastructure and Applications
- Signal and Image Processing
- Smart Media & Broadcasting, and Smart Devices
- Wireless & Mobile Communication Systems 2
- Applications for ICT Convergence 2
- Vehicular Information and Communication Technologies

WORKSHOP SESSIONS

- Underwater Communications
- Advances in Wireless and Satellite Communications 1
- Advances in Wireless and Satellite Communications 2
- Smart Edge Device
- UHD Broadcasting Systems and New Media Services
- Advances in Convergence of ICT and Brain Science for better health (ACIBS) 1
- Workplace-Home safety and Autonomated Mobility Services
- Advances in Convergence of ICT and Brain Science for better health (ACIBS) 2
- International Workshop on Energy Data
- Joint International Workshop on Military Informatics (IWM) 1
- Joint International Workshop on Military Informatics (IWM) 2
- Intelligent and Creative Content Service Platform
- Joint International Workshop on Military Informatics (IWM) 3
- Joint International Workshop on Military Informatics (IWM) 4
- Internet Infra System Technologies

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INDUSTRIAL SESSIONS

Securing and Accelerating Industrie 4.0
Mr. Han Taeounge, Managing Director of 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

5G era and new opportunities
Dr. Jongmin Lee, Vice President, SK telecom, Korea

mmWave breakthrough and 5G new vertical industries / services.
Mr. Dongho Park, Sr. Manager, Government Affairs, Huawei, Korea

AI-enabled Business Chatbot Applications: From Research and Industry Experiences
Dr. Hyochool Jung, Vice President, Wealth Management AI & Knowledge Management Technology, Morgan Stanley, USA

SPECIAL SESSIONS

Special Session I: Next Mobile Network
Radio and Computing Resource Allocation for Minimizing Total Processing Completion Time in Mobile EdgeComputing
Prof. Koichi Adachi, Advanced Wireless and Communication Research Center, University of Electro-Communications, Japan

5G is Now, Together, Make 5G Commercial Success
Dr. Richard Lixijuan, Head of Huawei 5G E2E Solution Department, Korea & Japan

Multi-Armed Bandits and Applications in Communication Networking
Prof. Joohyun Lee, Hanyang University, Korea

Special Session II: 6G Issues and Challenges
Plan for Korean 6G R&D
Dr. Sungho Choi, Program manager (PM) for Future Communications & Radio / IITP, Korea

Some technical issues and R&D plan for 6G
Dr. Byung Kim, Assistant Vice President, Leader of Future Mobile Communication Research Division, ETRI, Korea

Key drivers and research challenges for 6G
Prof. Matti Latva-aho, Director for 6G Flagship, University of Oulu, Finland

Special Session III: Quantum and Neural Technologies
Post Quantum Cryptography: Generalized Perspective on Lattice and Code Based Cryptography
Prof. Young-Sa Kim, Division University, Korea

High-Speed Optimization by Quantum Neural Networks and Its Application in Radio Resource Management
Prof. Misio Hasegawa, Tokyo University of Science, Japan

A Congestive Heart Failure Detection System with ECG Signals Based on Machine Learning Algorithms
Prof. Hsi-Fin Ma, National Yang Hua University, Taiwan

Special Session IV: 5G+Critical Communications
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. Farle Bur, University of the Basque Country / MCOP, Spain

Strategic collaboration among vertical domains for the economy of scale of 3GPP standards-based mission critical solutions
Mr. Hyunhee Koo, CEO of Synchnetic inc., Korea

Evolution in multi-channel Public Warning Systems
Mr. Chris van Arum, Head of Product management, One2many, Netherlands

Special Session V: AI based 5G Networks
Biomimicry Design as the Sustainable Solution to Human Challenges
Prof. Joonho Park, Ariadne St. University, Korea

The Evolution of the Internet of Things: Our Challenges and Success Stories
Dr. Jaeho Kim, Director, KETI, Korea

New business development with 5G
Dr. Dongjo Park, Ericsson-LG, Korea

Special Session VI: Applications of Deep Learning for Networking Systems
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

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