

# ICTC 2024

October 16th (Wednesday)														
Room	Ramada Ballroom1 (200)	Ramada Ballroom2 (60)	Ramada Ballroom3 (60)	Ramada Ballroom4 (60)	Mara Room (30)	Byang Room (30)	Udo Room (30)	Chuja Room (30)	Lobby	Tamma Room (120)	Halla Room (90)	Ora Room (60)	Ara Room (60)	Lobby
Floor	2F													
09:00~10:30 (90min)	<b>SPC Special Session I: Recent progress in 5G/6G wireless communications</b> Chair: Prof. Seung Hyun Jeon (Daejeon Univ., Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 1:</b> Chunguo Li, Professor, National Mobile Communications Research Laboratory, Southeast University, "Over-the-Air Channel Calibration Towards 6G systems"</li> <li>- <b>Invited Talk 2:</b> Taehyoung Kim, Assistant Professor, Kookmin University, "Evolution of duplex operation for 5G-Advanced"</li> <li>- <b>Invited Talk 3:</b> Alseiddin F. Y. Mohammed, Assistant Professor, Dongshin University, "Innovative Bandwidth Allocation in Passive Optical Networks to support Federated Learning"</li> </ul>	<b>A1</b> AI in Computer Vision and Image Processing Prof. Joongheon Kim (Korea University, Korea)	<b>B1</b> Machine Learning 1 Prof. TBA (TBA, TBA)	<b>C1</b> Networks 1 Prof. TBA (TBA, TBA)	<b>D1</b> Algorithms 1 Prof. TBA (TBA, TBA)	<b>E1</b> ICTC Workshop on 3D Communication Networks (IW3CN) Prof. Jilhwon Choi (Korea Advanced Institute of Science & Technology, Korea)	<b>F1</b> ICTC Workshop on Artificial Intelligence and Applications (IWAAIA) 1 Prof. Dong-Seok Han (Kyungpook Nat'l University, Korea)	<b>G1</b> ICTC Workshop on 6G STAR-MAC (IW6STAR) Prof. Sanghyun Cho (Hanyang University, Korea)	<b>H1</b> AI Poster 1 Dr. Joo Yong Shim (Korea University, Korea)	No Session	No Session	No Session	No Session	No Session
10:30~10:50	Coffee Break													
10:50~12:20 (90min)	<b>Industrial Session I</b> Chair: Dr. Tae Yeon Kim (ETRI, Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 1:</b> Italo Busi, Principal Optical Transport Network Research Engineer, Huawei, "From Automation to Autonomous: Intelligence in Optical Networks Management"</li> <li>- <b>Invited Talk 2:</b> Moonkook Park, Director, Group Leader, Mobigen, "End-to-End Service Innovation through Autonomous Network Federation in heterogeneous 5G/6G networks"</li> <li>- <b>Invited Talk 3:</b> Zoran Utokovski, Senior Research Scientist, Head of Smart Wireless Connectivity Group, Fraunhofer Heinrich Hertz Institute Berlin, "Next Generation Communication, Sensing and Computation for Edge Intelligence"</li> </ul>	<b>A2</b> AI Application Prof. Soyi Jung (Ajou University, Korea)	<b>B2</b> Machine Learning 2 Prof. TBA (TBA, TBA)	<b>C2</b> Convergence 1 Prof. TBA (TBA, TBA)	<b>D2</b> Mobility 1 Prof. TBA (TBA, TBA)	<b>E2</b> ICTC Workshop on Intelligent Secure Underwater Communication Technology (IWINSUCT) Prof. Namyeon Lee (Korea University, Korea)	<b>F2</b> ICTC Workshop on Artificial Intelligence and Applications (IWAAIA) 2 Prof. Dong-Seok Han (Kyungpook Nat'l University, Korea)	<b>G2</b> <b>Tutorial 1.2</b> Prof. TBA (TBA, TBA)	<b>H2</b> Poster Session 1 Prof. TBA (TBA, TBA)	<b>I2</b> 56GC General Session I: 6G Radio and Components Dr. Jung Hwan Hwang (Electronics & Telecommunications Research Institute, Korea)	<b>J2</b> ICTC WORKSHOP OF BIG DATA and 5G&6G COMMUNICATION NETWORKS (IWBCN) 1 Prof. Woongsok Na (Kongju Nat'l University, Korea)	<b>K2</b> 56GC General Session II: 6G NTN Dr. JunHwan Lee (Electronics & Telecommunications Research Institute, Korea)	<b>L2</b> ICTC 2nd Workshop on Native AI for 5G and 6G (IWNA) Prof. Seung-Woo Ko (Inha University, Korea)	No Session
12:20~13:40	<b>SPC Special Session II: Innovation for ICT convergence</b> Chair: Prof. Hyunbum Kim (Incheon National Univ., Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 4:</b> Sang-Hoon Jeon, Assistant Professor, The University of Suwon, "Cascade Windows-based Multi-stream Convolutional Neural Networks Framework for Early Detecting In-Sleep Stroke using Wristbands"</li> <li>- <b>Invited Talk 5:</b> Kailin Wan, Senior Director, Chang-an Auto. Ltd., "Thoughts And Practices On The Commercial Implementation Of Intelligent Driving"</li> <li>- <b>Invited Talk 6:</b> Paolo Bellavista, Professor, University of Bologna, "Cloud Continuum Digital Twins for Industry 5.0 Apps: the Ultra-Low-Latency Challenge"</li> </ul>	<b>A3</b> AI in Communication, Networks, and Satellite Systems Prof. Youn Kyu Lee (Hongik University, Korea)	<b>B3</b> Wireless 1 Prof. TBA (TBA, TBA)	<b>C3</b> Convergence 2 Prof. TBA (TBA, TBA)	<b>D3</b> IoT 1 Prof. TBA (TBA, TBA)	<b>E3</b> ICTC Workshop on Vehicle Edge & Cloud Computing (IWVECC) Prof. Ji-Woong Choi (Daeju Gyeongbuk Institute of Science and Technology, Korea)	<b>F3</b> ICTC Workshop on AIOU 6G Research Center (IWAGRC) Prof. Jae-Hyun Kim (Ajou University, Korea)	<b>G3</b> <b>Tutorial 3.4</b> Prof. TBA (TBA, TBA)	<b>H3</b> Poster Session 2 Prof. TBA (TBA, TBA)	<b>I3</b> 56GC Opening Ceremony Dr. Namseok Ko (Electronics & Telecommunications Research Institute, Korea)	<b>J3</b> ICTC WORKSHOP OF BIG DATA and 5G&6G COMMUNICATION NETWORKS (IWBCN) 2 Prof. Laihyuk Park (Seoul Nat'l University of Science & Technology, Korea)	<b>K3</b> ICTC Workshop on Next Generation Channel Coding and Its Applications (IWNGCCA) Prof. Sang-Hyo Kim (Sungkyunkwan University, Korea)	<b>L3</b> ICTC Workshop on Quantum Internet (Special Session for ITRC, Korea University) Prof. Jun Heo (Korea University, Korea)	ICTC Workshop on ETRI Human Understanding AI Paper Challenge (IWETRIA) Dr. Hyun-Tae Jeong (Electronics & Telecommunications Research Institute, Korea)
15:10~15:30	Coffee Break													
15:30~17:00 (90min)	<b>Plenary Session I: Opening Ceremony and Keynote Speeches (Ramada Ballroom1)</b> Chair: Prof. Kwang Soon Kim (Yonsei Univ., Korea, TPC Chair of ICTC 2024) <ul style="list-style-type: none"> <li>- <b>Opening Address:</b> TBA</li> <li>- <b>Congratulatory Address:</b> TBA</li> <li>- <b>Keynote Speech 1:</b> Olgene Min, Senior Vice President, ETRI, "Looking at next-generation artificial intelligence technology"</li> <li>- <b>Keynote Speech 2:</b> David Gesbert, Professor and Director of EUROCOM, Sophia Antipolis, France, "Learning and sensing in the sky with UAV-aided 6G Networks"</li> </ul>													
17:00~18:00	Coffee Break													
18:00~20:00 (120min)	<b>Banquet (Ramada Ballroom 1, 2, 3, 4)</b> <ul style="list-style-type: none"> <li>- Welcome Address : Dr. Yongsoo Baek, OC Chair of ICTC 2024</li> <li>- TPC Report : Prof. Kwang Soon Kim, TPC Chair of ICTC 2024</li> <li>- Awards Ceremony</li> <li>- Banquet Course</li> </ul>													

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Floor	2F													
08:30~10:00 (90min)	<b>SPC Special Session III: AI enables everything !</b> Chair: Prof. Yong-Geun Hong (Daejeon Univ., Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 7:</b> Burak Kantarci, Professor, University of Ottawa, "AI-Enabled Security and Safety of Critical Infrastructures for Beyond 5G"</li> <li>- <b>Invited Talk 8:</b> Jaek Jeong, Senior Researcher, ETRI, "Time-Varying Constraint-Aware Reinforcement Learning for Energy Storage Control"</li> <li>- <b>Invited Talk 9:</b> Rashid Ahmad, Assistant Professor, Sohar University, "Decentralized Federated Learning: Opportunities and Challenges"</li> </ul>	<b>A4</b> AI Application 2 Prof. Joongheon Kim (Korea University, Korea)	<b>B4</b> Machine Learning 3 Prof. TBA (TBA, TBA)	<b>C4</b> Networks 2 Prof. TBA (TBA, TBA)	<b>D4</b> Algorithms 2 Prof. TBA (TBA, TBA)	<b>E4</b> ICTC workshop on ERC center (IWERC) Prof. Inkyu Lee (Korea University, Korea)	<b>F4</b> ICTC Workshop on Wireless Applications (IWAAW) Prof. Seung-Hoon Hwang (Dongguk University, Korea)	<b>G4</b> <b>Tutorial 5.6</b> Prof. TBA (TBA, TBA)	<b>H4</b> AI Poster 2 Dr. Joo Yong Shim (Korea University, Korea)+B21-027	<b>I4</b> SCSS Technical Session 1 Prof. Jung Hoon Lee (Hankuk University of Foreign Studies, Korea)	<b>J4</b> 56GC Special Session I: 6G Fundamental Technology Festival Dr. JungSook Bae (Electronics & Telecommunications Research Institute, Korea)	<b>K4</b> ICTC WORKSHOP OF BIG DATA and 5G&6G COMMUNICATION NETWORKS (IWBCN) 3 Prof. Hyosu Kim (Chung-Ang University, Korea)	<b>L4</b> 56GC Special Session II: ITP Next Generation MAC and 3D Communication Technologies Dr. SungHo Choi (ITP,Korea)	56GC Poster Session 1 Dr. Hoon Lee Dr. Seokwon Jang (Electronics & Telecommunications Research Institute, Korea)
10:00~10:20	Coffee Break													
10:20~11:40 (80min)	<b>Plenary Session II: Keynote Speeches (Ramada Ballroom1)</b> Chair: TBA <ul style="list-style-type: none"> <li>- <b>Keynote Speech 3:</b> Chirag Patel, Director of Product Management, Globalstar, "Complementary Convergence: How Satellite and Terrestrial Address Challenges of Mobile and Fixed IoT Use Cases"</li> <li>- <b>Keynote Speech 4:</b> Robert W. Sumner, Adjunct Professor, ETH Zurich, "Fun is the Future"</li> </ul>													
11:40~13:00	Lunch													
13:00~14:30 (90min)	<b>Industrial Session II</b> Chair: Dr. Taesik Cheung (ETRI, Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 4:</b> Seunghyun Lee, Principal Engineer, Samsung Research, Samsung Electronics, "Technical Evolution Towards 6G"</li> <li>- <b>Invited Talk 5:</b> Minjun Park, Senior Engineer, Hamwa Systems, "Virtual Integrated Operation Platform (VIPP) for UAM Flight Simulation"</li> <li>- <b>Invited Talks 6:</b> Nicola di Pietro, R&amp;I Engineer and Subsidized Project Specialist, Hewlett Packard Enterprise, "From cloud to edge: an industrial overview of private 5G deployments, solutions, and use cases"</li> </ul>	<b>A5</b> Quantum and Reinforcement Learning Prof. Joongheon Kim (Korea University, Korea)	<b>B5</b> Wireless 2 Prof. TBA (TBA, TBA)	<b>C5</b> Convergence 3 Prof. TBA (TBA, TBA)	<b>D5</b> Mobility 2 Prof. TBA (TBA, TBA)	<b>E5</b> ICTC Workshop on Military Informatics (IWMI) 1 Prof. Taesoo Jun (Kumoh Nat'l Institute of Technology, Korea)	<b>F5</b> ICTC Workshop on Emerging Topics in Machine Intelligence (IWETMI) Prof. Won-Yong Shin (Yonsei University, Korea)	<b>G5</b> ICTC Workshop on Communication, Sensing, and Perception for Unmanned Vehicles (IWCSUP) Prof. Ulgate Orlkumhi (Hanyang University, Korea)	<b>H5</b> Poster Session 3 Prof. TBA (TBA, TBA)	<b>I5</b> SCSS Ooenning Ceremony and Keynote Speeches Prof. Heungju Yu (Korea University, Korea)	<b>J5</b> 56GC General Session III: 6G RAN Dr. JungSook Bae (Electronics & Telecommunications Research Institute, Korea)	<b>K5</b> 56GC General Session IV: 6G Mobile Core Dr. Namseok Ko (Electronics & Telecommunications Research Institute, Korea)	<b>L5</b> 56GC Special Session III: ITP Radio Transmission, Access, and Post-OFDM technologies Dr. SungHo Choi (ITP,Korea)	56GC Poster Session 2 Dr. Won Seok Han Dr. Minhyup Song (Electronics & Telecommunications Research Institute, Korea)
14:30~14:50	Coffee Break													
14:50~16:20 (90min)	<b>SPC Special Session IV: Future Digital World</b> Chair: Prof. Kyungsik Min (The Univ. of Suwon, Korea) <ul style="list-style-type: none"> <li>- <b>Invited Talk 10:</b> Jalel Ben-Othman, Full Professor, University of Paris-Saclay, "Transforming Urban Mobility and Vehicle Security: Exploring ICT Advances in Smart City Networks"</li> <li>- <b>Invited Talk 11:</b> Sangheum Lee, Assistant Professor, Harbat National University, "AI-Driven Optimization of Sensor Networks for Carbon-Neutral Infrastructure: From Apartments to Factories and Seaports"</li> <li>- <b>Invited Talk 12:</b> Wonhyuk Lee, Director, KISTI, "The Introduction of Research Activities on implementing secure communication based on QKD"</li> </ul>	<b>A6</b> Convergence of AI and 6G (ITRC 6G) Prof. Kyounglee Lee (Hanbat Nat'l University, Korea)	<b>B6</b> Machine Learning 4 Prof. TBA (TBA, TBA)	<b>C6</b> Convergence 4 Prof. TBA (TBA, TBA)	<b>D6</b> IoT 2 Prof. TBA (TBA, TBA)	<b>E6</b> ICTC Workshop on Military Informatics (IWMI) 2 Prof. Jaemin Lee (Kumoh Nat'l Institute of Technology, Korea)	<b>F6</b> ICTC Workshop on Emerging Topics in Wireless Communications (IWETWC) Prof. Jun Won Choi (Seoul Nat'l University)	<b>G6</b> ICTC Workshop on Information and Communication Strategic Technology for Industry Convergence (IWICST) Prof. Yeonho Chung (Pukyong National University, Korea)	<b>H6</b> Poster Session 4 Prof. TBA (TBA, TBA)	<b>I6</b> SCSS Technical Session 2 Dr. Pansoo Kim (Electronics & Telecommunications Research Institute, Korea)	<b>J6</b> 56GC General Session V: 6G Commercialization Dr. Tae Yeon Kim (Electronics & Telecommunications Research Institute, Korea)	<b>K6</b> ICTC Workshop on Access Technology, Softwareization, and Intelligence in Open RAN (IWORAN) Prof. Dong Yu Kim (Yonsei University, Korea)	<b>L6</b> 56GC Special Session IV: ITP Radio Access and MIMO Technologies Dr. SungHo Choi (ITP,Korea)	SCSS Poster Session 1 Prof. Hu Jin (Hanyang University) Prof. Hyowon Kim (Chungnam National University)
16:20~16:40	Coffee Break													
16:40~18:00 (80min)	<b>Plenary Session III: Keynote Speeches (Ramada Ballroom1)</b> Chair: TBA <ul style="list-style-type: none"> <li>- <b>Keynote Speech 5:</b> Wootae Kim, Vice President, KT Network R&amp;D Lab, "AI-Driven Network Operations with Cloud-native Network"</li> <li>- <b>Keynote Speech 6:</b> Bernhard Niemann, Director Communication Systems Division, Fraunhofer IIS, "Our path to 6G: Fraunhofer Lighthouse Project 6G SENTINEL"</li> </ul>													

October 18th (Friday)														
Room	Ramada Ballroom1 (200)	Ramada Ballroom2 (60)	Ramada Ballroom3 (60)	Ramada Ballroom4 (60)	Mara Room (30)	Byang Room (30)	Udo Room (30)	Chuja Room (30)	Lobby	Tamma Room (120)	Halla Room (90)	Ora Room (60)	Ara Room (60)	Lobby
Floor	2F													
08:30~10:00 (90min)	<b>SPC Special Session V: AI, data and related enabler</b> Chair: TBA <ul style="list-style-type: none"> <li>- <b>Invited Talk 13:</b> Rui Luis Andrade Aguiar, Head of Networks and Services, Instituto de Telecomunicações / Universidade de Aveiro, "Research Opportunities for the future smart society"</li> <li>- <b>Invited Talk 14:</b> Alberto P. Martí, VP of Open Source Innovation &amp; Chair of the IPCE-CIS Industry Facilitation Group, OpenNebula Systems, "Why is Europe investing 538 in a sovereign edge cloud?"</li> <li>- <b>Invited Talk 15:</b> Jeonggil Ko, Professor, Yonsei University, "Migrating the Intelligence from the Cloud to Users"</li> <li>- <b>Invited Talk 16:</b> Song Jaeseung, Professor, Sejong University, "Enabling common service functions for AI to standardized IoT platforms"</li> </ul>	<b>A7</b> Innovations in Nonlinear Theory and Smart Communications Prof. Mikio Hasegawa (Tokyo University of Science, Japan)	<b>B7</b> Machine Learning 5 Prof. TBA (TBA, TBA)	<b>C7</b> Wireless 3 Prof. TBA (TBA, TBA)	<b>D7</b> Networks 3 Prof. TBA (TBA, TBA)	<b>E7</b> ICTC Workshop on 6G Core Network (IW6GN) Prof. Yun Won Chung (Seoul Nat'l University, Korea)	<b>F7</b> ICTC Workshop on AI-native 6G (IW6AI) Prof. Saweong Bahk (Seoul Nat'l University, Korea)	<b>G7</b> ICTC Workshop on Next-generation vRAN for Industrial Applications (IWRAN) 1 Prof. Seong-Lyun Kim (Yonsei University, Korea)	<b>H7</b> Poster Session 5 Prof. TBA (TBA, TBA)	No Session	No Session	General AI Applications Prof. Joongheon Kim (Korea University, Korea)	Healthcare, Biomedicine, and AI for Medical Applications Prof. Soyi Jung (Ajou University, Korea)	No Session
10:00~10:20	Coffee Break													
10:20~11:50 (90min)	<b>SPC Special Session VI: Enabling AI Technologies to Smart City</b> Chair: TBA <ul style="list-style-type: none"> <li>- <b>Invited Talk 17:</b> Antonio Kung, Executive board, Triadg, "Impact of the evolution of standards on the citizens"</li> <li>- <b>Invited Talk 18:</b> Monique Calisti, CEO, Martel, "Next Generation Internet and Smart City"</li> <li>- <b>Invited Talk 19:</b> Chandra Challagonda, Vice President, Business Development, FIWARE Foundation, "Building Fair and Inclusive AI: Harnessing Global Data Spaces for Collaborative Training"</li> <li>- <b>Invited Talk 20:</b> Jeonghyeok PARK, General Manager, K-water(Korea Water Resources Corporation), "Augmented Cities, Enhanced Capabilities: Improving QoI through Digital Twins"</li> </ul>	<b>A8</b> ICTC Workshop on Satellites & Radio Technologies (IWSRT) Prof. Sungteak Kahng (Incheon Nat'l University)	<b>B8</b> Machine Learning 6 Prof. TBA (TBA, TBA)	<b>C8</b> Wireless 4 Prof. TBA (TBA, TBA)	<b>D8</b> Convergence 5 Prof. TBA (TBA, TBA)	<b>E8</b> ICTC Workshop on Network Softwareization (IWNetSoft) Prof. Sangheon Park (Korea University, Korea)	<b>F8</b> ICTC Workshop on 6G Research Initiative (IW6RI) Prof. Kyunghwan Lee (Seoul Nat'l University, Korea)	<b>G8</b> ICTC Workshop on Next-generation vRAN for Industrial Applications (IWRAN) 2 Seong-Lyun Kim (Yonsei University, Korea)	<b>H8</b> Poster Session 6 Prof. TBA (TBA, TBA)	No Session	No Session	ICTC Workshop on 6G SRAN (IW6GSRA) Prof. Yonsei University, Korea)	Reinforcement Learning, Optimization, and Advanced AI Architectures Prof. Dongwoo Kang (Hongik University, Korea)	No Session