Joongheon Kim

Associate Professor, Korea University – School of Electrical Engineering, Seoul, Republic of Korea
 Adjunct Professor, Department of Semiconductor Engineering & Department of Communications Engineering
 Center Director, Net-Zero CAFE (Connectivity and Autonomy for Future Ecosystem) Research Center, Seoul, Republic of Korea
 E-mail: joongheon@korea.ac.kr
 WWW: https://joongheon.github.io

Educational Backgrounds

- University of Southern California (USC) Viterbi School of Engineering, Los Angeles, California, USA
 - Ph.D. (08/2009–08/2014) in Computer Science, Thomas Lord Department of Computer Science
 (Advisor: Prof. Andreas F. Molisch (Fellow of the IEEE), Ming Hsieh Department of Electrical and Computer Engineering)
 Research Assistant, Communications, Information, Learning, and Quantum (CILQ) Group
 - M.S. (05/2014) in Computer Science with specialization in High Performance Computing and Simulations
 - M.S. (05/2012) in Electrical Engineering
- Korea University College of Informatics, Seoul, Republic of Korea
 - M.S. (03/2004–02/2006) in Computer Science and Engineering
 (Advisor: *Prof. Wonjun Lee (Fellow of the IEEE)*, Department of Cyber Defense and Future Network Center)
 - B.S. (03/1999–02/2004) in Computer Science and Engineering

R&D Positions

Full-Time Positions

- Korea University, Seoul, Republic of Korea
 - Associate Professor (03/2021–Present), Assistant Professor (09/2019–02/2021), School of Electrical Engineering
 - Adjunct Professor (03/2023–02/2028 (Expected)), Department of Communications Engineering (with **Samsung Electronics**) (Steering Committee Member (03/2023–Present), Department of Communications Engineering)
 - Adjunct Professor (11/2022–02/2028 (Expected)), Department of Future Science and Technology Business (Graduate School)
 - Adjunct Professor (03/2021–02/2026 (Expected)), Department of Semiconductor Engineering (with SK Hynix)
 - R&D Positions and Leadership
 - * Director (07/2024–12/2031), Quantum AI Empowered Second-Life Platform Technology Laboratory Software Star-Lab, funded by IITP and the Ministry of Science and ICT (Grant: \$2,400K)
 - * Center Director (07/2024–12/2031), Net-Zero CAFE Research Center
 University ICT Research Center (ITRC), funded by IITP and the Ministry of Science and ICT (Grant: \$7,500K)
 - Administrative Positions
 - * Deputy Vice President (02/2022–08/2024), Office of Academic Affairs
 - * Dean (06/2021–08/2023), Center for Teaching and Learning (CTL)
- Chung-Ang University College of Computer Science and Software, Seoul, Republic of Korea
 - Assistant Professor (03/2016–08/2019), School of Computer Science and Engineering
- Intel Corporation Platform Engineering Group, Silicon Valley (Santa Clara), California, USA
 - Systems Engineer (03/2015–02/2016), WiGig & mmWave Standards and Advanced Technology (SAT) Team
 - Standards Scientist (07/2014–03/2015), WiGig & mmWave SAT Team
 - Wireless Standards Engineer Intern (09/2013-07/2014), WiGig & mmWave SAT Team
- University of Southern California (USC) Viterbi School of Engineering, Los Angeles, California, USA
 - Annenberg Graduate Fellow (08/2009), Awarded with Ph.D. admission in Computer Science from USC (2009)
 - Ph.D. Research Assistant (01/2011–08/2014), Communication Sciences Institute (CSI) (Advised by Prof. Andreas F. Molisch)
 (CSI is now re-organized as Communications, Information, Learning, and Quantum (CILQ) Group)
 - Teaching Assistant (01/2012–05/2013), Computer Science and Electrical Engineering Departments (CSCI455x and EE579)
- InterDigital, San Diego, California, USA
 - Intern (05/2012–08/2012), Wireless Systems Evolution Department
 - Subject Matter Expert in IEEE 802.11ad (01/2012–02/2012), Wireless Systems Evolution Department
- LG Electronics CTO Office, Seoul, Republic of Korea
 - Research Engineer (01/2006–08/2009), Multimedia Research Laboratory, Seocho R&D Campus
- Korea University Department of Computer Science and Engineering, Seoul, Republic of Korea
 M.S. Research/Teaching Assistant (03/2004–02/2006), Network Research Laboratory (Advised by Prof. Wonjun Lee)

Short-Term Visiting and Part-Time Positions

University of California, Irvine – Donald Bren School of Information and Computer Sciences, Irvine, California, USA
 Visiting Scholar (08/2018), Department of Computer Science (Host: Prof. Marco Levorato)

Academia (Membership, Editorial Boards, and Services)

- IEEE
 - Senior Member (2018–), Member (2006–2017)
 - Distinguished Lecturer (2022–2023), IEEE Communications Society

- Editor (2023–), IEEE Internet of Things Journal
- Associate Editor (2020-), IEEE Transactions on Vehicular Technology (Area: Vehicular Electronics and Systems)
- Guest Editor (03/2022), IEEE Communications Standards Magazine (S.I. on Recent and Future Evolution of Wi-Fi)
- IEEE Vehicular Technology Society (VTS) Seoul Chapter
 - * Chapter Assistant Administrator for Planning (2024–), Chapter Treasurer (2022–2023, 2020–2021)
 - * IEEE VTS APWCS Organizing Committee: Finance Co-Chair (2023), Finance Chair (2022), Finance Co-Chair (2021)

Awards and Honors

Research and Academic Excellence (International)

- IEEE VTS Seoul Chapter Award (2024) IEEE Vehicular Technology Society (w/ G.S. Kim, S. Jung, S. Park)
 "Quantum multi-agent reinforcement learning software design and visual simulations for multi-drone mobility control"
- IEEE VTS Seoul Chapter Award (2024) IEEE Vehicular Technology Society (w/ J.Y. Shim) "Diffusion-based quantum error mitigation using stochastic differential equation"
- IEEE VTS Seoul Chapter Award (2023) IEEE Vehicular Technology Society (w/S. Park)
 "Quantum reinforcement learning for large-scale multi-agent decision-making in autonomous aerial networks"
- IEEE Seoul Section Student Paper Contest, Bronze Paper Award (12/2023) (w/G.S. Kim, J. Chung, S.B. Son, H. Lee, H. Baek, S. Park) "Aircraft taxi routing using reinforcement learning at Hartsfield Jackson Atlanta international airport"
- **Best Editor Award (2023)** *ICT Express (Elsevier) (07/2023)*
- Finalist (Top 25), AAAI Student Abstract and Poster Session Oral Presentation Contest (2023) (w/H. Baek, et al)
 "FV-Train: Quantum convolutional neural network training with a finite number of qubits by extracting diverse features"
- **IEEE ICTC Best Paper Award (2022)** *IEEE Communications Society (w/ J.-H. Lee, D.P. Selvam, A.F. Molisch)* "Reinforcement learning empowered massive IoT access in LEO-based non-terrestrial networks"
- IEEE VTS Seoul Chapter Award (2022) IEEE Vehicular Technology Society (w/ H. Lee, S. Jung, J.-H. Kim, et al) "DDPG-based deep reinforcement learning for loitering munition mobility control: Algorithm design and visualization"
- **Spotlight, Oral Presentation (2022)** *ICML Workshop on Dynamic Neural Networks* (2022) (w/ S. Jung, J. Park, M. Bennis, et al) "Slimmable quantum federated learning"
- IEEE MMTC Best Journal Paper Award (2021) IEEE Communications Society
 - M. Choi, A.F. Molisch, and J. Kim, "Joint Distributed Link Scheduling and Power Allocation for Content Delivery in Wireless Caching Networks," *IEEE Transactions on Wireless Communications*, 19(12):7810-7824, December 2020.
- IEEE VTS Seoul Chapter Award (2021) IEEE Vehicular Technology Society (w/S. Jung, J.-H. Kim, et al) "Quantum scheduling for millimeter-wave observation satellite constellation"
- **IEEE VTS Seoul Chapter Award (2021)** *IEEE Vehicular Technology Society (w/ S. Jung, et al)* "Distributed and autonomous aerial data collection in smart city surveillance applications"
- IEEE ICOIN Best Paper Award (2021) IEEE Computer Society (w/S. Jung, J.-H. Kim, et al)
 "Infrastructure-assisted cooperative multi-UAV deep reinforcement energy trading learning for big-data processing"
- IEEE MMTC Outstanding Young Researcher Award (2020) IEEE Communications Society
- IEEE Systems Journal Best Paper Award (2020) IEEE Systems Council (Top 7 among 793 accepted papers in 2019 (Top 0.88%))
 - M. Saad, J. Choi, D. Nyang, J. Kim, and A. Mohaisen, "Towards Characterizing Blockchain-based Cryptocurrencies for Highly-Accurate Predictions," *IEEE Systems Journal*, 14(1):321-332, March 2020.
- IEEE Seoul Section Student Paper Contest, Bronze Paper Award (2020) (w/S. Park)

 "Reliable offloading target selection using deep reinforcement learning for large fire accidents."
- "Reliable offloading target selection using deep reinforcement learning for large fire accident"
 IEEE Seoul Section Student Paper Contest, Gold Paper Award (2019) (w/D. Kim, et al)
- "Stabilized super-resolution deep learning adaptation for UAV-assisted mobile edges: A Lyapunov optimization approach"
- **IEEE VTS Seoul Chapter Award (2019)** *IEEE Vehicular Technology Society (w/ S. Park, D. Kwon, M. Shin)* "Joint offloading and streaming in mobile edges: A deep reinforcement learning approach"
- Next Generation and Standards (NGS) Division Recognition Award (Q1/2005) Intel Corporation
 For developing a 3-dual sector mmWave backhaul link software stack with mesh, relay, and load balancing capability for modular antenna array (MAA) proof-of-concept (POC)
- Annenberg Graduate Fellowship Award (2009) University of Southern California
 Awarded with Ph.D. Admission in Computer Science, Viterbi School of Engineering

Research and Academic Excellence (Korea Regional)

- HFR Paper Award (Area: Quantum Technologies and Quantum Communications) (11/2023) KICS (w/S. Park, H. Baek) "Quantum multi-agent reinforcement leaning for multi-metaverse adaptive streaming in hybrid quantum-classical networks"
- Korea Electronics Technology Institute (KETI) President Award (06/2023) 2023 KICS Summer Conference (w/H. Lee, S. Park) "Grid environment design and grouping for optimal relay station placement"
- Haedong Paper Award (02/2023) KICS (w/S. Jung, J. Park, et al)
 - $"Dynamic \, quantum \, federated \, learning \, framework \, at \, satellites \, and \, ground \, stations \, using \, slimmable \, quantum \, neural \, networks"$
- Excellence Paper Award (02/2023) 2023 KICS Winter Conference (w/ H. Lee, S. Jung, J.-H. Kim, et al) "Self-learning-based hybrid MAC for military UAV networks"
- Insung Research Grant Award (01/2023) *Korea University*For recognizing Korea University professors in research excellence during the first 3 years at Korea University (Top 5%)

- Excellence Paper Award (02/2022) 2022 KIISE Summer Workshop on Computer Communications (SWCC) (w/ H. Lee, S. Jung)
- Excellence Paper Award (02/2022) 2022 KICS Winter Conference (w/ Y.K. Lee, S. Jung, et al) "Trends in neural architecture search for object detection"
- **Haedong Young Scholar Award (2018)** KICS and Haedong Foundation

For recognizing a researcher under the age of 40 who has made outstanding contributions to communication sciences R&D

- **Haedong Paper Award (06/2021)** KICS (w/ H. Baek, S. Jung, et al)
- "Neural architectural nonlinear pre-processing for mmWave radar-based human gesture perception in on-driving scenarios"
- Excellence Paper Award (06/2021) 2021 KICS Summer Conference (w/ B. Lim, Y.-C. Ko, et al)
 - "Deep learning based non-orthogonal pilot design for massive MIMO"
- Excellence Paper Award (Undergraduate) (06/2021) 2021 KICS Summer Conference (w/S. Jung, et al)
 - "Deep reinforcement learning visualization and simulations using Unity-RL in an autonomous driving environment"
- Encouragement Paper Award (11/2020) 2020 KICS Fall Conference
 - "UAV trajectory optimization via multi-agent deep reinforcement learning"
- Encouragement Paper Award (06/2020) 2020 KICS Summer Conference
 - "3D modeling and WebVR implementation using Azure Kinect, Open3D, and Three.js"
- Encouragement Paper Award (02/2020) 2020 KICS Winter Conference
 - "Quantum heuristic solver using QAOA for the maximum independent set problem"
- Encouragement Paper Award (02/2020) 2020 KICS Winter Conference
 - "Multi-drone scheduling for high-reliable and high-performance UAV-based surveillance networking"
- Outstanding Paper Award (2008) LG Electronics CTO Office, Multimedia Research Laboratory
 - W. Lee, E. Kim, J. Kim, I. Lee, and C. Lee, "Movement-Aware Vertical Handoff of WLAN and Mobile WiMAX for Seamless Ubiquitous Access," *IEEE Transactions on Consumer Electronics*, 53(4):1268-1275, November 2007.
- RFID Expert Group President Award (2007) The 3rd RFID/USN Research Paper Contest
- ETRI President Award (2006) The 2nd RFID/USN Research Paper Contest
- Korea Association of RFID/USN (KARUS) President Award (2005) The 1st RFID/USN Research Paper Contest
- Scholarships for Academic Excellence (Fall 1999, Fall 2000) Korea University, Department of Computer Science and Engineering

Research and Academic Excellence of the Students under Joongheon Kim's Supervision

- Best Presentation Award (06/2024) A3 Foresight Program 2024 Workshop (awarded to Hyunsoo Lee)
- Best Presentation Award (12/2022) A3 Foresight Program 2022 Workshop (awarded to Soohyun Park)
- ICT Express Best Reviewer Award (12/2021) ICT Express (Elsevier) (awarded to Soohyun Park)
- Best Presentation Award (02/2021) A3 Foresight Program 2021 Workshop (awarded to Hankyul Baek)

Teaching and Supervision Excellence

 Granite Tower Best Teaching Award (Top 5%) – Korea University (Future Mobility Technology, GEQR075) 	Spring 2022
 Best Teaching Award (Top 20%) – Korea University (Probability and Random Process, KECE209) 	Spring 2022
• Granite Tower Best Teaching Award (Top 5%) – Korea University (Computer Language and Lab, EGRN151)	Fall 2021
• Best Teaching Award (Top 20%) – Korea University (Object Oriented Programming, SEMI104)	Fall 2021
• Granite Tower Best Teaching Award (Top 5%) – Korea University (Introduction to Computers, SEMI103)	Spring 2021
• Best Teaching Award (Top 20%) – Korea University (Probability and Random Process, KECE209)	Spring 2021
• Best Teaching Award (Top 20%) – Korea University (Computer Language and Lab, EGRN151)	Fall 2020
• Granite Tower Best Teaching Award (Top 5%) – Korea University (Computer Language and Lab, EGRN151)	Fall 2019

Academic and University Services

- Outstanding Contribution Award (02/2023) KIISE Information Network Society
- 2022 Best Chapter Award, IEEE Vehicular Technology Society Chapter (12/2022) IEEE Seoul Section
 Awarded as a Treasure
- Outstanding Contribution Award (02/2022) KIISE Information Network Society
- Outstanding Contribution Award (12/2021) Open Standards and ICT Association (OSIA)
- Outstanding Contribution Award (11/2021) KICS
- **Appreciation Recognition (10/2021)** Daegu Gyeongbuk Institute of Science and Technology (DGIST)
- Outstanding Contribution Award (11/2019) KICS
- Fellow Employee Recognition [#3081146] (12/2014) Intel Corporation
- Certificate of Appreciation (09/2010) Department of Computer Science, University of Southern California

R&D Projects (Totally, 16,359,784 USD ≈ 16,359,784,000 KRW)

Industry-Funded Projects

• Advancement Technology Development for Torpedo Deception Strategies in Submarines Funded by *LIG Nex1* [Grant: \$700,000; Primary-PI]

11/2022-11/2026

 Advancement Technology Development for Submarine Target Identification and Engagement Support Intelligence Funded by LIG Nex1 [Grant: \$300,000; Primary-PI]

11/2022-11/2026

• Mapping between Real World and Virtual Reality (VR) for End-Edged Cloud Real-Time VR Servers Funded by Samsung Advanced Institute of Technology [Grant: \$325,000; Primary-PI]	09/2020-09/2025
• Research on Learning-based Swarm Mission Planning Algorithms Funded by LIG Nex1 [Grant: \$110,000; Primary-PI]	03/2024-02/2025
 Quantum Machine Learning-based Objection Detection for Point Cloud and its Acceleration 	12/2022-04/2024
Funded by Hyundai Motors Group [Grant: \$110,000; Primary-PI] • Routing Algorithms for LEO Satellite Networks	12/2022-08/2023
Funded by Solvit System [Grant: \$27,500; Primary-PI] Optimal Positioning Algorithms for Wide-Area Relaying Networks	12/2022-08/2023
Funded by <i>Solvit System</i> [Grant: \$22,000; Primary-PI] • Distributed Learning Algorithms to Build AI Models with Multi-Center Clinical Data	11/2022-02/2023
Funded by Cipherome [Grant: \$12,000; Primary-PI] • Cellular/Wi-Fi Handover Technology Development	02/2022-12/2022
Funded by LG Electronics CTO Division – Smart Mobility Lab., Advanced R&BD Center [Grant: \$88,000; Printer and the Research Trends in Digital Twin Applications to Autonomous Driving	mary-PI] 03/2022–04/2022
 Funded by Hyundai NGV [Grant: \$1,000; Primary-PI] Distributed Learning System Design and Implementation for Clinical Applications 	02/2022-03/2022
Funded by <i>Cipherome</i> [Grant: \$15,000; Primary-PI] • Super-Resolution Performance Optimization in Mobile Platforms	05/2020-08/2020
Funded by Samsung SDS [Grant: \$15,000; Primary-PI] • Deep Learning Algorithms for mVOC Concentration Analysis	03/2020-06/2020
Funded by Samsung Electronics (C-Lab) [Grant: \$12,000; Primary-PI]	03/ 2020-00/ 2020
• Visual Recognition Software Implementation using Deep Learning Tools Funded by Hyundai Motors Company (Hyundai NGV) [Grant: \$59,500; Primary-PI]	05/2019–11/2019
A Priori Techniques Research for Efficient Multi-Edge Computing Funded by Samsung Electronics (Software Center) [Grant: \$80,000]	06/2017-12/2017
University/Center-Level Projects	
 Net-Zero CAFE (Connectivity and Autonomy for Future Ecosystem) Research Center – ITRC Funded by Institute for ICT Promotion (IITP) [IITP-2024-RS-2024-00436887, Grant: \$7,500,000], PI: Korea U 	07/2024–12/2031
<u>Center Director</u> • Intelligent 6G Wireless Access System Research Center – 6G AI Research Center	04/2021–12/2025
Funded by <i>Institute for ICT Promotion (IITP)</i> [2021-0-00467, Grant: \$154,000 (2 yrs)], PI: Korea University	
 Nano UAV Intelligence Systems Research Lab (NUiSRL) – ADD Military Special Research Center Funded by Agency for Defense Development (ADD) [UD200027ED, Grant: \$130,000], PI: Kwangwoon Univ 5G/Unmanned Vehicle Research Center (5G/UV-RC) – ITRC 	10/2020–08/2023 ersity (Korea) 06/2020–12/2022
Funded by <i>Institute for ICT Promotion (IITP)</i> [2020-0-01637, Grant: \$55,709], PI: Hanyang University (Kore Part Lead	a)
• Human Resource Development for the Biomedical Unstructured Big Data Analysis – <i>ITRC</i> Funded by <i>Institute for ICT Promotion (IITP)</i> [2018-0-01833], PI: Seoul National University Hospital (Kore	08/2018–12/2021 a)
• Intelligent Internet of Energy (IoE) Data Research Center – <i>ITRC</i> Funded by <i>Institute for ICT Promotion (IITP)</i> [2018-0-01396], PI: Kookmin University (Korea)	02/2020-05/2020
Government-Funded Projects	
Quantum AI Empowered Second-Life Platform Technology	07/2024-12/2031
Funded by Institute for ICT Promotion (IITP) – Software Star-Lab [xxx, Grant: \$1,500,000] • 6GARROW: 6G AI-Native Integrated RAN-Core Networks	09/2024-08/2027
Funded by <i>Institute for ICT Promotion (IITP)</i> [xxx, Grant: \$330,000] • AI Bots Collaborative Platform and Self-Organizing Artificial Intelligence Technology Development	04/2022-12/2026
 Funded by Institute for ICT Promotion (IITP) [2022-0-00907, Grant: \$950,000] Development of AI Learning Platform for Intelligent Excavators based on Expert Work Data Funded by Korea Evaluation Institute of Industrial Technology (KEIT) 	
Tunded by Roten Loniunion institute of industrial rectinology (RLII)	04/2023-12/2026
(Primary-PI: Prof. Soyi Jung at Ajou University)	04/2023-12/2026
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing 	04/2023-12/2026 03/2022-02/2025
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] 	03/2022-02/2025
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] Development of Integrated Development Framework that supports Automatic Neural Network Gene Deployment optimized for Runtime Environment 	03/2022-02/2025
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] Development of Integrated Development Framework that supports Automatic Neural Network Gene Deployment optimized for Runtime Environment Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$270,000] 	03/2022–02/2025 eration and 04/2021–12/2024
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] Development of Integrated Development Framework that supports Automatic Neural Network Gene Deployment optimized for Runtime Environment Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$270,000] Korea-Japan Joint Seminar Project for Generative and Multi-Modal AI Technologies Funded by National Research Foundation of Korea (International Research Collaboration) [Grant: \$50,000; PI] 	03/2022–02/2025 eration and 04/2021–12/2024 10/2023–09/2024
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] Development of Integrated Development Framework that supports Automatic Neural Network Gene Deployment optimized for Runtime Environment Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$270,000] Korea-Japan Joint Seminar Project for Generative and Multi-Modal AI Technologies Funded by National Research Foundation of Korea (International Research Collaboration) [Grant: \$50,000; PI] K-Starlink: Dynamic Reconfigurable and Intelligent Space-Terrestrial Networks Funded by National Research Foundation of Korea (Basic Research Lab) [2021R1A4A1030775, Grant: \$251,000] 	03/2022–02/2025 eration and 04/2021–12/2024 10/2023–09/2024 06/2021–05/2024 000]
 (Primary-PI: Prof. Soyi Jung at Ajou University) Quantum Hyper-Driving: Quantum-Inspired Hyper-Connected and Hyper-Sensing Autonomous Mobility Technologies Funded by National Research Foundation of Korea [2022R1A2C2004869, Grant: \$600,000; Primary-PI] Development of Integrated Development Framework that supports Automatic Neural Network Gene Deployment optimized for Runtime Environment Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$270,000] Korea-Japan Joint Seminar Project for Generative and Multi-Modal AI Technologies Funded by National Research Foundation of Korea (International Research Collaboration) [Grant: \$50,000; PI] K-Starlink: Dynamic Reconfigurable and Intelligent Space-Terrestrial Networks 	03/2022–02/2025 eration and 04/2021–12/2024 10/2023–09/2024 06/2021–05/2024

• Development of Quantum Deep Reinforcement Learning Algorithm using QAOA Funded by <i>Ministry of Science and ICT</i> [2019M3E4A1080391, Grant: \$503,250; Primary-PI]	10/2019-04/2022
• mmWave Radar and Deep Reinforcement Learning based Optimal Policy Autonomous Driving Funded by National Research Foundation of Korea [2019R1A2C4070663, Grant: \$275,000; Primary-PI]	06/2019-02/2022
• Development of Privacy-Reinforcing Distributed Transfer-Iterative Learning Algorithm Funded by Ministry of Health and Welfare [HI19C0842, Grant: \$150,000]	07/2019-12/2021
Virtual Presence in Moving Objects through 5G (PriMO-5G)	06/2018-06/2021
Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$246,464] • Distributed Secure Platform for Scalable Clinical OMOP CDM Models First deal has Ministry of Health and Walfare [HI10C0572, Grant #00 000]	04/2019-12/2020
Funded by Ministry of Health and Welfare [HI19C0572, Grant: \$90,000]	
 Network Engineering: Development and Application of Novel Data Science Driven Framework for Efficient Network Design 	06/2017-05/2020
Funded by National Research Foundation of Korea (Basic Research Lab) [2017R1A4A1015675, Grant: \$150,0	
• mmWave High-Speed Networking Platform Design for Next-Generation Convergence Services	06/2016-05/2019
Funded by <i>National Research Foundation of Korea</i> [2016R1C1B1015406, Grant: \$150,000; Primary-PI]	00/2010-03/2019
- Selected as Initial Innovation Lab [Grant: \$60,000]	
• Feasibility Study of 60 GHz IEEE 802.11ad for Virtual Reality (VR) Platforms	04/2017-12/2017
Funded by <i>Institute for ICT Promotion (IITP)</i> [Grant: \$33,333; Primary-PI]	01/201/ 12/201/
·	
Government-Funded Research Institute Projects	
 Quantum Reinforcement Learning for Satellite Backhaul Routing in Disaster Networks 	05/2024-11/2024
Funded by Electronics and Telecommunications Research Institute [Grant: \$40,000; Primary-PI]	
Research on Quantum Multi-Agent Reinforcement Learning Stability	09/2023-01/2024
(Research on Multi-Agent Reinforcement Learning Exploration, Communication, Training Strategy)	
Funded by Electronics and Telecommunications Research Institute	
(Primary-PI: Prof. Soohyun Park at Sookmyung Women's University)	00 /0000 44 /0000
NOMA-based Resource Allocation Research in Space-Air-Ground Integrated Networks	09/2023–11/2023
Funded by Electronics and Telecommunications Research Institute [Grant: \$20,900; Primary-PI]	10 /0001 11 /0000
• Autonomous Intelligent COA Search Methods for Cyber-Attacks First dod by: Accuse for Defence Development (ADD) I 11210000VD. Graph \$100,000; Primary, PH	12/2021–11/2022
Funded by <i>Agency for Defense Development (ADD)</i> [UI210009XD, Grant: \$100,000; Primary-PI] • Fundamental Research on LEO Satellite Access Protocols in Non-Territorial Networks	04/2021 11/2021
Funded by Electronics and Telecommunications Research Institute	04/2021–11/2021
(Primary-PI: Prof. Soyi Jung at Ajou University)	
Research on Intelligent Agent-based CPS Security and Reliability	05/2021-11/2021
Funded by <i>Telecommunications Technology Association (TTA)</i> [Grant: \$48,000; Primary-PI]	00,2021 11,2021
Multi-GPU based Automotive HPC Platform Development	04/2020-10/2020
(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Info	
Funded by Electronics and Telecommunications Research Institute [19HS2720 (IITP 2017-0-00068), Grant: \$20	
 Cooperative Deep Reinforcement Learning for Online Game Multi-Agents 	04/2020-08/2020
(Human-Agent Cooperation Algorithm Design in Multi-Agent Environment)	
Funded by Electronics and Telecommunications Research Institute [19YE1400, Grant: \$28,000; Primary-PI]	
Verification Testbed Implementation for Privacy-Preserving Trust Data Generation	10/2019–11/2019
Funded by Electronics and Telecommunications Research Institute [Grant: \$44,000]	05 (2010, 10 (2010
Measurement and Analysis of Multi-Task GPU Scheduling Delays (A. Davidson and A. C. Davidson Delays and A. C. Davidson Delays Del	05/2019–10/2019
(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Info	
 Funded by Electronics and Telecommunications Research Institute [19HS2720 (IITP 2017-0-00068), Grant: \$40 Probabilistic Decision Making and Econometric Methods for Micro-Grid 	05/2017–04/2019
Funded by Korea Electric Power Corporation (KEPCO) Research Institute [R17XA05-41, Grant: \$143,128; Print Pr	
• GPU Scheduling Performance Analysis under Queueing Delay Considerations	05/2018–10/2018
(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Info	
Funded by <i>Electronics and Telecommunications Research Institute</i> [18HS1420 (IITP 2017-0-00068), Grant: \$40	
• Improving Massive Deep Learning Training via Computation and Communication Acceleration	04/2018–10/2018
(Development of HPC System for Accelerating Large-Scale Deep Learning)	
Funded by Electronics and Telecommunications Research Institute [18HS1710 (IITP 2016-0-00087), Grant: \$30),000; Primary-PI]
 Parsing Techniques for Artificial Neural Network (ANN) Data Processing 	09/2017-11/2017
(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Info	
Funded by Electronics and Telecommunications Research Institute [17HS2720 (IITP 2017-0-00068), Grant: \$40),000; Primary-PI]
Awards and Fellowship Funds	

Awards and Fellowship Funds

• Insung Research Grant Award (2023) – Korea University 03/2023-02/2024 For recognizing Korea University professors in research excellence during the first 3 years at Korea University (Top 5%) Awarded Project Title: Quantum Machine Learning for Autonomous Mobility Systems Awarded Project Fund: \$20,000

• Annenberg Graduate Fellowship Award (2009) – *University of Southern California*Awarded with Ph.D. Admission in Computer Science, Viterbi School of Engineering
Awarded Fund: 4 Year Full Scholarship (Tuition Waiver and \$120,000 Stipend (\$30,000/year for 4 years))

University of Southern California (USC) – Viterbi School of Engineering (Ph.D. Research Projects)

• Video Aware Wireless Networks (VAWN) Research Program

Funded by *Intel Labs, Verizon Wireless*, and *Cisco Systems*; Under the guidance of Prof. Andreas F. Molisch (University of Southern California, USA) and Prof. Giuseppe Caire (Technische Universität Berlin, Germany)

• 60 GHz Real-Time Wireless Video Broadcasting
Supported by a Gift from *Disney Research Zürich*; Under the guidance of Prof. Andreas F. Molisch (University of Southern California, USA), Prof. Yafei Tian (Beihang Univ, China), and Dr. Stefan Mangold (Disney Research Zürich, Switzerland)

Selected Publications

- 8203+ Citations (H-index: 43+, i10-index 186+), obtained from Google Scholar Profile (as of August 13, 2024)
- $\underline{147}$ journals and $\underline{11}$ top-tier conferences, $\underline{\text{https://sites.google.com/view/aimlab-kuee/publications}}$
 - 112 IEEE journals/magazines, among them, 80 publications are in IEEE Magazines and ComSoc/VTS/ITSS Journals

Dissertation, Books, and Book Chapters

■ Ph.D. Dissertation

• Elements of Next-Generation Wireless Video Systems: Millimeter-Wave and Device-to-Device Algorithms
Ph.D. Dissertation (Computer Science), University of Southern California (Los Angeles, California, USA, August 2014)

■ Books and Book Editing

Fundamentals of 6G Communications and Networking, Springer (2023). (Editors: X. Lin, J. Zhang, Y. Liu, J. Kim)

■ Book Chapters

- Fundamentals of 6G Communications and Networking, Springer (2023).
 - Chapter 30. Network Security and Trustworthiness, (S. Jung, S. Park, S.B. Son, H. Lee, J. Kim)
 - Chapter 29. Semantic Communications and Networking, (W.J. Yun, S. Park, R. Lee, J. Park, Y.-C. Ko, J. Kim)
 - Chapter 28. Convergence of 6G and Wi-Fi Networks, (H. Lee, S. Park, M. Yoo, C. Park, H. Baek, <u>I. Kim</u>)
 - Chapter 26. UAV Communications and Networks, (S. Park, J.-H. Lee, S. Jung, J. Kim)
 - Chapter 22. AI-Native Network Algorithms and Architectures, (H. Lee, S. Park, H. Baek, C. Park, S. Son, J. Park, J. Kim)
 - Chapter 21. AI-Native Communications, (H. Baek, H. Lee, S. Park, H. Lee, J. Park, J. Kim)
 - Chapter 20. Network Disaggregation, (S. Park, C. Park, J.P. Kim, M. Choi, J. Kim)
 - Chapter 1. Introduction to 6G Communications and Networking, (X. Lin, J. Zhang, Y. Liu, J. Kim)
- *Advances and Applications in Deep Learning*, IntechOpen (2020).
 - Chapter 6. Dynamic Decision-Making for Stabilized Deep Learning Software Platforms, (S. Park, D. Kim, J. Kim)
- Towards 5G: Applications, Requirements and Candidate Technologies, Wiley (2017).
 - Chapter 9. Device-to-Device Communications, (A.F. Molisch, M. Ji, J. Kim, D. Burghal, A.S. Tehrani)
- Opportunities in 5G Networks: A Research and Development Perspective, CRC Press (2016).
 - Chapter 19. Millimeter-Wave (mmWave) Medium Access Control: A Survey, (J. Kim)
 - Chapter 17. Millimeter-Wave (mmWave) Radio Propagation Characteristics, (J. Kim)
- Handbook on Mobile and Ubiquitous Computing: Status and Perspective, CRC Press (2012).
 - Chapter 22. Weighted Localized Clustering: A Coverage-Aware Reader Collision Arbitration Protocol in RFID Networks, (<u>J. Kim</u>, E. Kim, W. Lee, D. Kim, J. Choi, J. Jung, C.K. Shin)
- Wireless Mesh Networking, McGraw-Hill (2008).
 - Chapter 2.5.4.1. Coverage-Time Optimized Dynamic Clustering for Two-Tiered WM2Nets, (<u>I. Kim.</u>, W. Lee, E. Kim, T.K. Shih)

Selected Papers

■ Conferences – Top-Tiers, Awarded/Honored, and Highly-Cited (Selected)

- [INFOCOM'25] (Notification: 06-Dec-2024) (Double Blind Review), INFOCOM (2025). (C. Im, S. Park, W. Lee, J. Kim)
- [INFOCOM'25] (Notification: 06-Dec-2024) (Double Blind Review), INFOCOM (2025). (G.S. Kim, E.J. Roh, S. Park, J. Kim)
 - [AAAI'25] (Notification: 09-Dec-2024) (Double Blind Review), AAAI (2025). (G.S. Kim, E.J. Roh, S. Park, J. Kim)
 - [WiOpt'24] (Notification: 23-Aug-2024) Advanced Taxiing Path Guidance using Multi-Agent Reinforcement Learning for Air Traffic Management, WiOpt (2024). (S. Lee, G.S. Kim, S. Park, J. Kim)
 - [WiOpt'24] (Notification: 23-Aug-2024) Joint Multi-Agent Reinforcement Learning and Message-Passing for Distributed Multi-UAV Cooperation using Conflict Graphs, WiOpt (2024). (Y. Cho, H. Lee, S. Park, J. Kim)
 - [CIKM'24] Hands-On Introduction to Quantum Machine Learning (Tutorial), CIKM (2024). (S. Y.-C. Chen, J. Kim)
 - [CIKM'23] Quantum Split Learning for Privacy-Preserving Information Management, CIKM (2023). (S. Park, H. Baek, J. Kim)
 - [CIKM'23] Logarithmic Dimension Reduction for Quantum Neural Networks, CIKM (2023). (H. Baek, S. Park, J. Kim)
 - [AAAI'23] Quantum Multi-Agent Meta Reinforcement Learning, AAAI (2023). (W.J. Yun, J. Park, J. Kim)
 - [AAAI'23] FV-Train: Quantum Convolutional Neural Network Training with a Finite Number of Qubits by Extracting Diverse Features, **AAAI Student Abstract and Poster (2023)**. (H. Baek, W.J. Yun, J. Kim) (Finalist, Oral Presentation Contest)
 - [CIKM'22] Hierarchical Reinforcement Learning using Gaussian Random Trajectory Generation in Autonomous Furniture Assembly, CIKM (2022). (W.J. Yun, D. Mohaisen, S. Jung, J.-K. Kim, J. Kim)

- [ICTC'22] Reinforcement Learning Empowered Massive IoT Access in LEO-based Non-Terrestrial Networks, ICTC (2022). (J.-H. Lee, D.P. Selvam, A.F. Molisch, J. Kim) (Best Paper Award)
- [WiOpt'22] Cooperative Video Quality Adaptation for Delay-Sensitive Dynamic Streaming using Adaptive Super-Resolution, WiOpt (2022). (M. Choi, W.J. Yun, J. Kim)
 - [ICML'22] Slimmable Quantum Federated Learning, ICML Workshop on Dynamic Neural Networks (2022). (W.J. Yun, J.P. Kim, S. Jung, J. Park, M. Bennis, J. Kim) (Spotlight, Oral Presentation)
- [INFOCOM'22] Joint Superposition Coding and Training for Federated Learning over Multi-Width Neural Networks, INFOCOM (2022). (H. Baek, W.J. Yun, Y. Kwak, S. Jung, M. Ji, M. Bennis, J. Park, J. Kim)
 - [ICOIN'21] Infrastructure-Assisted Cooperative Multi-UAV Deep Reinforcement Energy Trading Learning for Big-Data Processing, ICOIN (2021). (S. Jung, W.J. Yun, J. Kim, J.-H. Kim) (Best Paper Award)
 - [ICTC'20] A Tutorial on Quantum Convolutional Neural Networks (QCNN), ICTC (2020). (S. Oh, J. Choi, J. Kim) (Citations: 100+)
 - [ICDCS'20] Understanding the Potential Risks of Sharing Elevation Information on Fitness Applications, ICDCS (2020). (Ü. Meteriz, N.F. Yildiran, J. Kim, D. Mohaisen)
 - [ICML'20] XOR Mixup: Privacy-Preserving Data Augmentation for One-Shot Federated Learning, ICML Workshop on Federated Learning for User Privacy and Data Confidentiality (2020). (M. Shin, C. Hwang, J. Kim, J. Park, M. Bennis, S.-L. Kim) (Citations: 100+)
 - [IJCAI'19] Randomized Adversarial Imitation Learning for Autonomous Driving, IJCAI (2019). (M. Shin, J. Kim)
 - [ICBC'19] Mempool Optimization for Defending Against DDoS Attacks in PoW-based Blockchain Systems, **ICBC (2019)**. (M. Saad, L. Njilla, C. Kamhoua, J. Kim, D. Nyang, A. Mohaisen) (Citations: 100+)
 - [ICDCS'18] ShmCaffe: A Distributed Deep Learning Platform with Shared Memory Buffer for HPC Architecture, ICDCS (2018). (S. Ahn, J. Kim, E. Lim, W. Choi, A. Mohaisen, S. Kang)
 - [MM'17] REQUEST: Seamless Dynamic Adaptive Streaming over HTTP for Multi-Homed Smartphone under Resource Constraints, Multimedia (2017). (J. Koo, J. Yi, J. Kim, M.A. Hoque, S. Choi)
 - [ITA'14] Joint Scheduling and Stochastic Streaming for Device-to-Device Video Delivery, **ITA Workshop (2014)**. (*J. Kim, A. Turci, G. Caire, A.F. Molisch*) (ITA Graduation Day Talk)
 - [MobiSys'10] Energy-Efficient Rate-Adaptive GPS-based Positioning for Smartphones, MobiSys (2010). (J. Paek, <u>I. Kim</u>, R. Govindan) (Citations: 600+)

■ Journals and Magazines

■ Review ▶

- [TETC.review] (Review since 26-Jun-2024) Reliable Transpilation Control for Cloud-based Quantum Learning Systems, IEEE Transactions on Emerging Topics in Computing. (J. Y. Shim, X. Piao, S. Park, J. Kim)
 - [TIV.review] (Review since 24-Jun-2024) Quantum Multi-Agent Reinforcement Learning for Joint Cube-Satellites and High-Altitude Long-Endurance Aerial Vehicles in SAGIN, *IEEE Transactions on Intelligent Vehicles*. (G.S. Kim, Y. Cho, S. Park, S. Jung, J. Kim)
- [IOTJ.review] (Review since 24-Jun-2024) Privacy-Preserving Uncertainty Calibration using Perceptual Encryption in Cloud-Edge Collaborative Artificial Intelligence of Things, IEEE Internet of Things Journal. (I. Ahmad, J. Kim, S. Shin)
- [TETCI.review] (Review since 08-Jun-2024) (Double Blind Review), IEEE Transactions on Emerging Topics in Computational Intelligence. (C. Im, S. Park, J. Kim)
 - [CM.review] (Review since 06-Jun-2024) Sustainable Quantum Multi-Agent Cooperative Learning: Algorithms and Software Methods, IEEE Communications Magazine. (S. Park, J. Kim)
 - [NN.review] (Review since 02-Jun-2024) Quantum Federated Learning with Pole-Angle Quantum Local Training and Trainable Measurement, Neural Networks (Elsevier). (S. Park, H. Lee, S.B. Son, S. Jung, J. Kim)
- [TMC.review] (Review since 30-May-2024) Quantum Multi-Agent Reinforcement Learning for Cooperative Mobile Access in Space-Air-Ground Integrated Networks, *IEEE Transactions on Mobile Computing*. (G.S. Kim, Y. Cho, J. Chung, S. Park, S. Jung, Z. Han, J. Kim)
- [Neuro.review] (Review since 10-May-2024) Multi-Resolution 3D Quantum Convolutional Neural Networks, Neurocomputing (Elsevier). (S. Park, E.J. Roh, C. Im, J. Kim)
 - [IOT].review] (Review since 22-Apr-2024) Joint Quantum Reinforcement Learning and Neural Myerson Auction for High-Quality Digital-Twin Services in Multi-Tier Networks, *IEEE Internet of Things Journal*. (S. Park, G.S. Kim, J. Kim)
 - [TVT.review] (Review since 22-Apr-2024) Joint Communication, Computing, and Control for Mission-Critical Aerial Distributed Systems, IEEE Transactions on Vehicular Technology. (G.S. Kim, S. Park, S. Jung, D. Mohaisen, J. Kim)
- [TNNLS.review] (Double Blind Review), IEEE Transactions on Neural Networks and Learning Systems. (H. Baek, J. Chung, S. Park, J. Kim)
 - [TON.review] (Review since 05-Apr-2024) Slimmable Federated Reinforcement Learning for Energy-Efficient Proactive Caching, IEEE/ACM Transactions on Networking. (H. Baek, G.S. Kim, S. Park, A.F. Molisch, J. Kim)
 - [TITS.review] (Review since 30-Mar-2024) Learning-based Aircraft Taxi Routing: Empirical Evaluation Study for Hartsfield-Jackson Atlanta International Airport, IEEE Transactions on Intelligent Transportation Systems. (G.S. Kim, S. Lee, S. Park, J. Kim)
 - [MM.review] (Review since 25-Mar-2024) Quantum Jump to Virtual Worlds: High-Quality Multiple Virtual Meta-Space Realization in Metaverse, *IEEE Multimedia*. (S. Park, J. Kim)

■ Revision ▶

- [IOT].revision] Entanglement-Controlled Quantum Federated Learning, IEEE Internet of Things Journal. (S. Park, H. Lee, S. Jung, J. Park, M. Bennis, J. Kim)
- [TMC.revision] Joint Sustainable Control and Quantum Reinforcement Learning for Energy-Efficient Cube-Satellite Networks, *IEEE Transactions on Mobile Computing*. (S. Park, G.S. Kim, S. Jung, Z. Han, J. Kim)
- [CM.revision] Dynamic Software Testing for Run-Time Program Analysis in Quantum-based Autonomous Driving Applications,

- IEEE Communications Magazine. (S. Park, J. Kim)
- [CM.revision] Quantum Neural Network Software Testing, Analysis, and Code Optimization for Advanced IoT Systems: Design, Implementation, and Visualization, *IEEE Communications Magazine*. (S. Park, J. Kim)
- [TNSM.revision] Intelligent Extra Resource Allocation for Cooperative Awareness Message Broadcasting in Cellular-V2X Networks, *IEEE Transactions on Network and Service Management*. (S. Jung, J.-H. Kim, J. Kim)
 - [TMC.revision] Fast Quantum Convolutional Neural Networks for Low-Complexity Object Detection in Autonomous Driving Applications, *IEEE Transactions on Mobile Computing*. (E.J. Roh, H. Baek, D. Kim, J. Kim)
 - [TON.revision] Spatio-Temporal Multi-Metaverse Dynamic Streaming for Hybrid Quantum-Classical Systems, *IEEE/ACM Transactions on Networking*. (S. Park, H. Baek, J. Kim)
- [Access.revision] Sensing-to-Sky Intermittent Connectivity Realization for LTE-Enabled Drone Platforms: Embedded Design, Measurement Study, and Positioning Applications, *IEEE Access (VTS Section)*. (J. Kim, S. Park, U. Jo, T. Kim, S. Jung, J. Kim)
 - [IOT].revision] Markov Decision Policies for Distributed Angular Routing in LEO Mobile Satellite Constellation Networks, IEEE Internet of Things Journal. (S. Park, G.S. Kim, S. Jung, J. Kim)
 - [CM.revision] The Matrix: Quantum AI for Interacting Two Worlds in Prioritized Metaverse Spaces, *IEEE Communications Magazine*. (S. Park, H. Baek, J. Kim)
 - [TIV.revision] Adaptive Quantum Federated Learning for Autonomous Surveillance Multi-Drone Networks, *IEEE Transactions on Intelligent Vehicles*. (S. Park, C. Park, S. Jung, J. Kim)

Accepted ►

- [CM.accepted] Quantum Multi-Agent Reinforcement Learning is All You Need: Coordinated Global Access in Integrated TN/NTN Cube-Satellite Networks, *IEEE Communications Magazine*. (S. Park, G.S. Kim, Z. Han, J. Kim)
- [TVT.accepted] Dynamic Quantum Federated Learning for UAV-based Autonomous Surveillance, *IEEE Transactions on Vehicular Technology*. (S. Park, S.B. Son, S. Jung, <u>J. Kim</u>)
- [TIV.accepted] Neural Myerson Auction for Truthful and Distributed Mobile Charging in UAV-Assisted Digital-Twin Networks, *IEEE Transactions on Intelligent Vehicles*. (S. Jung, H. Baek, J. Kim)

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- [TMC'24.11] Joint Quantum Reinforcement Learning and Stabilized Control for Spatio-Temporal Coordination in Metaverse, *IEEE Transactions on Mobile Computing*, 23(11):ppp–ppp (2024). (S. Park, J. Chung, C. Park, S. Jung, M. Choi, S. Cho, J. Kim)
- [FGCS'24.10] AQUA: Analytics-driven Quantum Neural Network (QNN) User Assistance for Software Validation, Future Generation Computer Systems (Elsevier), 159:545–556 (2024). (S. Park, H. Baek, J.W. Yoon, Y.K. Lee, <u>I. Kim</u>)
- [ETRI'24.10] Trends in Quantum Reinforcement Learning: State-of-the-Arts and the Road Ahead, ETRI Journal (Wiley), 46(5):ppp–ppp (2024). (S. Park, J. Kim) (Invited Article)
- [TNSM'24.08] Cooperative Multi-UAV Positioning for Aerial Internet Service Management: A Multi-Agent Deep Reinforcement Learning Approach, *IEEE Transactions on Network and Service Management*, 21(4):ppp–ppp (2024). (*I. Kim., S. Park, S. Jung, C. Cordeiro*)
- [Access'24.08] Enhancing Cost-Effective 5G Virtualized RAN Pooling Gain on Clouds: An Intelligent Auto-Scaling Approach, *IEEE Access*, v:ppp-ppp (2024). (K. Cho, J. Kim, S. Jung)
 - [TVT'24.07] Age-of-Information Aware Caching and Delivery for Infrastructure-Assisted Connected Vehicles, *IEEE Transactions* on Vehicular Technology, 73(7):10681–10696 (2024). (S. Park, C. Park, S. Jung, M. Choi, J. Kim)
- [MTAP'24.07] Stabilized Performance Maximization for GAN-based Real-Time Authentication Image Generation over Internet, *Multimedia Tools and Applications (Springer)*, 83(22):62045–62059 (2024). (J.Y. Shim, S. Jung, J. Kim, J.-K. Kim)
 - [CM'24.06] Quantum Multi-Agent Reinforcement Learning for Autonomous Mobility Cooperation, *IEEE Communications Magazine*, 62(6):106–112 (2024). (S. Park, J.P. Kim, C. Park, S. Jung, J. Kim)
 - [TVT'24.04] Learning-Based Cooperative Mobility Control for Autonomous Drone-Delivery, *IEEE Transactions on Vehicular Technology*, 73(4):4870–4885 (2024). (S. Park, C. Park, J. Kim)
- [Access'24.04] Dynamic Quantum Federated Learning for Satellite-Ground Integrated Systems using Slimmable Quantum Neural Networks, *IEEE Access (VTS Section)*, 12:58239–58247 (2024). (S. Park, S. Jung, J. Kim)
- [Access'24.04] Quantum Reinforcement Learning for Spatio-Temporal Prioritization in Metaverse, *IEEE Access*, 12:54732–54744 (2024). (S. Park, H. Baek, J. Kim)
 - [TWC'24.03] Joint User Clustering, Beamforming, and Power Allocation for mmWave-NOMA with Imperfect SIC, *IEEE Transactions on Wireless Communications*, 23(3):2025–2038 (2024). (B. Lim, W.J. Yun, J. Kim, Y.-C. Ko)
- [TGCN'24.03] Joint Delay-Sensitive and Power-Efficient Quality Control of Dynamic Video Streaming using Adaptive Super-Resolution, *IEEE Transactions on Green Communications and Networking*, 8(1):103–117 (2024). (M. Choi, W.J. Yun, S.B. Son, S. Park, J. Kim)
 - [TIV'24.02] Intelligent Caching for Seamless High-Quality Streaming in Vehicular Networks: A Multi-Agent Reinforcement Learning Approach, *IEEE Transactions on Intelligent Vehicles*, 9(2):3672–3686 (2024). (M. Choi, T. Xiang, J. Kim)
- [TNNLS'24.02] Hierarchical Deep Reinforcement Learning-based Propofol Infusion Assistant Framework in Anesthesia, *IEEE Transactions on Neural Networks and Learning Systems*, 35(2):2510–2521 (2024). (W.J. Yun, M. Shin, D. Mohaisen, K. Lee, J. Kim)
 - [TMC'24.01] Learning Location from Shared Elevation Profiles in Fitness Apps: A Privacy Perspective, *IEEE Transactions on Mobile Computing*, 23(1):581–596 (2024). (U. Meteriz, N.F. Yildiran, J. Kim, D. Mohaisen)

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- [TON'23.12] SlimFL: Federated Learning with Superposition Coding over Slimmable Neural Networks, *IEEE/ACM Transactions* on Networking, 31(6):2499–2514 (2023). (W.J. Yun, Y. Kwak, H. Baek, S. Jung, M. Ji, M. Bennis, J. Park, J. Kim)
 - [IET'23.12] Two-Stage Architectural Fine-Tuning for Neural Architecture Search in Efficient Transfer Learning, *IET Electronics Letters*, 59(24):e13066 (2023). (S. Park, S.B. Son, Y.K. Lee, S. Jung, J. Kim)

- [IOT]'23.11] Quantum Multiagent Actor–Critic Networks for Cooperative Mobile Access in Multi-UAV Systems, *IEEE Internet of Things Journal*, 10(22):20033–20048 (2023). (C. Park, W.J. Yun, J.P. Kim, S. Park, T.K. Rodrigues, S. Jung, J. Kim)
- [TVT'23.11] Two-Stage Self-Adaptive Task Outsourcing Decision Making for Edge-Assisted Multi-UAV Networks, *IEEE Transactions on Vehicular Technology*, 72(11):14889–14905 (2023). (S. Jung, C. Park, M. Levorato, J.-H. Kim, J. Kim)
- [ETRI'23.10] Joint Frame Rate Adaptation and Object Recognition Model Selection for Stabilized Unmanned Aerial Vehicle Surveillance, ETRI Journal (Wiley), 45(5):811–821 (2023). (G.S. Kim, H. Lee, S. Park, J. Kim)
- [ETRI'23.10] Two Tales of Platoon Intelligence for Autonomous Mobility Control: Enabling Deep Learning Recipes, ETRI Journal (Wiley), 45(5):735–745 (2023). (S. Park, H. Lee, C. Park, S. Jung, M. Choi, J. Kim) (Invited Article)
- [ETRI'23.10] Special Issue on Autonomous Unmanned Aerial/Ground Vehicles and their Applications, ETRI Journal (Wiley), 45(5):731–734 (2023). (J. Kim, Y-C. Lee, J.H. Lee, J.S. Choi)
- [IC'23.09-10] EQuaTE: Efficient Quantum Train Engine for Run-Time Dynamic Analysis and Visual Feedback in Autonomous Driving, *IEEE Internet Computing*, 27(5):24–31 (2023). (S. Park, H. Feng, C. Park, Y.K. Lee, S. Jung, J. Kim)
- [OJCS'23.09] Real-Time High-Quality Visualization for Volumetric Contents Rendering: A Lyapunov Optimization Framework, *IEEE Open Journal of the Computer Society*, 4:243–252 (2023). (H. Baek, R. Lee, S. Jung, J. Kim, S. Park)
- [TIV'23.08] Multi-Agent Reinforcement Learning for Cooperative Air Transportation Services in City-Wide Autonomous Urban Air Mobility, *IEEE Transactions on Intelligent Vehicles*, 8(8):4016–4030 (2023). (C. Park, G.S. Kim, S. Park, S. Jung, J. Kim)
- [NN'23.08] Stereoscopic Scalable Quantum Convolutional Neural Networks, Neural Networks (Elsevier), 165:860–867 (2023). (H. Baek, W.J. Yun, S. Park, J. Kim)
- [IOT]'23.06] Quantum Multiagent Actor-Critic Neural Networks for Internet-Connected Multirobot Coordination in Smart Factory Management, *IEEE Internet of Things Journal*, 10(11):9942–9952 (2023). (W.J. Yun, J.P. Kim, S. Jung, J.-H. Kim, J. Kim)
- [ICTE'23.06] Quantum Distributed Deep Learning Architectures: Models, Discussions, and Applications, ICT Express (Elsevier), 9(3):486–491 (2023). (Y. Kwak, W.J. Yun, J.P. Kim, H. Cho, J. Park, M. Choi, S. Jung, J. Kim)
- [Access'23.05] Entropy-Aware Similarity for Balanced Clustering: A Case Study with Melanoma Detection, *IEEE Access*, 11:46892–46902 (2023). (S.B. Son, S. Park, J. Kim)
- [ComNet'23.04] Self-Adaptive End-to-End Resource Management for Real-Time Monitoring in Cyber-Physical Systems, Computer Networks (Elsevier), 225:109669 (2023). (H.-C. Jo, H.-W. Jin, J. Kim)
- [ComNet'23.04] Truthful and Performance-Optimal Computation Outsourcing for Aerial Surveillance Platforms via Learning-based Auction, Computer Networks (Elsevier), 225:109651 (2023). (S. Jung, J.-H. Kim, D. Mohaisen, J. Kim)
 - [CIBM'23.04] Deep Reinforcement Learning-based Propofol Infusion with a 3,000-subject Dataset in Anesthesia, Computers in Biology and Medicine (Elsevier), 156:106739 (2023). (W.J. Yun, M. Shin, S. Jung, J. Ko, H.-C. Lee, J. Kim)
 - [Access'23.03] Audio-to-Visual Cross-Modal Generation of Birds, IEEE Access, 11:27719–27729 (2023). (J.Y. Shim, J. Kim, J.-K. Kim)
 - [Access'23.02] Workload-Aware Scheduling using Markov Decision Process for Infrastructure-Assisted Learning-Based Multi-UAV Surveillance Networks, *IEEE Access (VTS Section)*, 11:16533–16548 (2023). (S. Park, C. Park, S. Jung, J.-H. Kim, J. Kim)
 - [TITS'23.01] Self-Configurable Stabilized Real-Time Detection Learning for Autonomous Driving Applications, *IEEE Transactions on Intelligent Transportation Systems*, 24(1):885–890 (2023). (W.J. Yun, S. Park, J. Kim, D. Mohaisen)

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- [JCN'22.12] Neural Myerson Auction for Truthful and Energy-Efficient Autonomous Aerial Data Delivery, *Journal of Communications and Networks*, 24(6):730–741 (2022). (H. Lee, S. Kwon, S. Jung, J. Kim)
- [JCN'22.12] Parallelized and Randomized Adversarial Imitation Learning for Safety-Critical Self-Driving Vehicles, *Journal of Communications and Networks*, 24(6):710-721 (2022). (W.J. Yun, M. Shin, S. Jung, S. Kwon, J. Kim)
- [TII'22.10] Cooperative Multi-Agent Deep Reinforcement Learning for Reliable Surveillance via Autonomous Multi-UAV Control, *IEEE Transactions on Industrial Informatics*, 18(10):7086–7096 (2022). (W.J. Yun, S. Park, <u>I. Kim</u>, M. Shin, S. Jung, D. Mohaisen, J.-H. Kim) (Citations: 100+)
- [ICTE'22.09] Trustworthy Handover in LEO Satellite Mobile Networks, *ICT Express (Elsevier)*, 8(3):432–437 (2022). (S. Jung, M.-S. Lee, J. Kim, M.-Y. Yun, J. Kim, J.-H. Kim)
- [TVT'22.07] Joint Pilot Design and Channel Estimation using Deep Residual Learning for Multi-Cell Massive MIMO under Hardware Impairments, *IEEE Transactions on Vehicular Technology*, 71(7):7599–7612 (2022). (B. Lim, W.J. Yun, J. Kim, Y.-C. Ko)
- [ITU'22.07] Dynamic Resource Scheduling for Real-Time Group Broadcasting in 6G Cellular Vehicular Networks, ITU Journal on Future and Evolving Technologies, 3(1):81–88 (2022). (S. Jung, M. Levorato, J. Kim)
- [ISJ'22.06] Securing Heterogeneous IoT with Intelligent DDoS Attack Behavior Learning, *IEEE Systems Journal*, 16(2):1974–1983 (2022). (N.-N. Dao, T. Phan, U. Sa'ad, <u>I. Kim</u>, T. Bauschert, D.-T. Do, S. Cho)
- [CSM'22.06] Recent and Future Evolution of Wi-Fi, *IEEE Communications Standards Magazine*, 6(2):8–11 (2022). (E. Au, L. Wilhelmsson, T. Baykas, J. Kim)
- [TMC'22.05] Supremo: Cloud-Assisted Low-Latency Super-Resolution in Mobile Devices, *IEEE Transactions on Mobile Computing*, 21(5):1847–1860 (2022). (J. Yi, S. Kim, J. Kim, S. Choi)
- [TVT'22.05] Stabilized Detection Accuracy Maximization using Adaptive SAR Image Processing in LEO Networks, *IEEE Transactions on Vehicular Technology*, 71(5):5661–5665 (2022). (K. Kim, J.-H. Lee, S. Jung, J. Kim, J.-H. Kim)
- [ISJ'22.03] LiteZKP: Lightening Zero-Knowledge Proof-based Blockchains for IoT and Edge Platforms, *IEEE Systems Journal*, 16(1):112–123 (2022). (E. Boo, J. Kim, J. Ko)
- [TVT'22.02] Quality-Aware Deep Reinforcement Learning for Streaming in Infrastructure-Assisted Connected Vehicles, *IEEE Transactions on Vehicular Technology*, 71(2):2002–2017 (2022). (W.J. Yun, D. Kwon, M. Choi, J. Kim, G. Caire, A.F. Molisch)
- [SR'22.01] Feasibility Study of Multi-Site Split Learning for Privacy-Preserving Medical Systems under Data Imbalance Constraints in COVID-19, X-Ray, and Cholesterol Dataset, *Scientific Reports (Nature)*, 12:1534 (2022). (Y.J. Ha, G. Lee, M. Yoo, S. Jung, S. Yoo, J. Kim)

4 2021 ▶

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 - [ISJ'21.09] Intelligent Active Queue Management for Stabilized QoS Guarantees in 5G Mobile Networks, *IEEE Systems Journal*, 15(3):4293–4302 (2021). (S. Jung, J. Kim, J.-H. Kim)
- [Access'21.09] Spatio-Temporal Split Learning for Privacy-Preserving Medical Platforms: Case Studies with COVID-19 CT, X-Ray, and Cholesterol Data, *IEEE Access*, 9:121046–121059 (2021). (Y.J. Ha, M. Yoo, G. Lee, S. Jung, S. Choi, <u>I. Kim</u>, S. Yoo)
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 - [TMC'21.06] A Personalized Preference Learning Framework for Caching in Mobile Networks, *IEEE Transactions on Mobile Computing*, 20(6):2124–2139 (2021). (A. Malik, K.S. Kim, J. Kim, W.-Y. Shin)
 - [TVT'21.06] Orchestrated Scheduling and Multi-Agent Deep Reinforcement Learning for Cloud-Assisted Multi-UAV Charging Systems, *IEEE Transactions on Vehicular Technology*, 70(6):5362–5377 (2021). (S. Jung, W.J. Yun, M. Shin, J.-H. Kim)
- [Access'21.06] Joint Mobile Charging and Coverage-Time Extension for Unmanned Aerial Vehicles, *IEEE Access*, 9:94053-94063 (2021). (S. Park, M. Choi, W.-Y. Shin, J. Kim)
- [ICTE'21.06] Truthful Electric Vehicle Charging via Neural-Architectural Myerson Auction, ICT Express (Elsevier), 7(2):196–199 (2021). (H. Lee, S. Jung, J. Kim)
- [PIEEE'21.05] Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications, *Proceedings of the IEEE*, 109(5):796–819 (2021). (*J. Park, S. Samarakoon, A. Elgabli, J. Kim, M. Bennis, S.-L. Kim, M. Debbah*) (Citations: 200+)
- [TWC'21.04] Probabilistic Caching and Dynamic Delivery Policies for Categorized Contents and Consecutive User Demands, *IEEE Transactions on Wireless Communications*, 20(4):2685–2699 (2021). (M. Choi, A.F. Molisch, D.-J. Han, D. Kim, J. Kim, J. Moon)
- [JCN'21.04] Stabilized Adaptive Sampling Control for Reliable Real-Time Learning-based Surveillance Systems, *Journal of Communications and Networks*, 23(2):129–137 (2021). (D. Kim, S. Park, J. Kim, J.y. Bang, S. Jung)
- [JCN'21.04] Dynamic Video Delivery using Deep Reinforcement Learning for Device-to-Device Underlaid Cache-Enabled Internet-of-Vehicle Networks, *Journal of Communications and Networks*, 23(2):117–128 (2021). (M. Choi, M. Shin, J. Kim)
- [JNCA'21.04] Contra-*: Mechanisms for Countering Spam Attacks on Blockchain's Memory Pools, *Journal of Network and Computer Applications (Elsevier)*, 179:102971 (2021). (M. Saad, J. Kim, D. Nyang, D. Mohaisen)
 - [ISJ'21.03] Multiscale LSTM-Based Deep Learning for Very-Short-Term Photovoltaic Power Generation Forecasting in Smart City Energy Management, *IEEE Systems Journal*, 15(1):346–354 (2021). (D. Kim, D. Kwon, L. Park, J. Kim, S. Cho)
- [ICTE'21.03] Distributed Deep Reinforcement Learning for Autonomous Aerial eVTOL Mobility in Drone Taxi Applications, ICT Express (Elsevier), 7(1):1–4 (2021). (W.J. Yun, S. Jung, J. Kim, J.-H. Kim)
 - [IET'21.03] Empirically Comparing the Performance of Blockchain's Consensus Algorithms, *IET Blockchain*, 1(1):56–64 (2021). (A. Ahmad, A. Alabduljabbar, M. Saad, D. Nyang, J. Kim, D. Mohaisen)

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- [TWC'20.12] Joint Distributed Link Scheduling and Power Allocation for Content Delivery in Wireless Caching Networks, *IEEE Transactions on Wireless Communications*, 19(12):7810–7824 (2020). (M. Choi, A.F. Molisch, J. Kim)
 (IEEE ComSoc MMTC Best Journal Paper Award (2021))
- [IOTJ'20.10] Multiagent DDPG-Based Deep Learning for Smart Ocean Federated Learning IoT Networks, *IEEE Internet of Things Journal*, 7(10):9895–9903 (2020). (D. Kwon, J. Jeon, S. Park, J. Kim, S. Cho) (Citations: 100+)
- [JCN'20.08] Self-Adaptive Power Control with Deep Reinforcement Learning for Millimeter-Wave Internet-of-Vehicles Video Caching, *Journal of Communications and Networks*, 22(4):326–337 (2020). (D. Kwon, <u>J. Kim</u>, D. Mohaisen, W. Lee)
- [Access'20.06] Blind Signal Classification Analysis and Impact on User Pairing and Power Allocation in Nonorthogonal Multiple Access, IEEE Access, 8:100916–100929 (2020). (M. Choi I. Kim)
 - [TII'20.05] Cooperative Management for PV/ESS-Enabled Electric-Vehicle Charging Stations: A Multiagent Deep Reinforcement Learning Approach, *IEEE Transactions on Industrial Informatics*, 16(5):3493–3503 (2020). (M. Shin, D. Choi, J. Kim) (Citations: 100+)
 - [ETRI'20.04] Simulation and Measurement: Feasibility Study of Tactile Internet Applications for mmWave Virtual Reality, ETRI Journal (Wiley), 42(2):163–174 (2020). (W. Na, N.-N. Dao, J. Kim, E.-S. Ryu, S. Cho)
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 - [JCN'20.02] Numerical Approximation of Millimeter-Wave Frequency Sharing between Cellular Systems and Fixed Service Systems, *Journal of Communications and Networks*, 22(1):37–45 (2020). (S. Han, J.-W. Choi, J. Kim)
- [JAIHC'20.01] A Novel Network Virtualization based on Data Analytics in Connected Environment, *Journal of Ambient Intelligence* and Humanized Computing (Springer), 11(1):75-86 (2020). (K.-H.N. Bui, S. Cho, J.J. Jung, J. Kim, O-J. Lee, W. Na)

4 2019 ►

- [TWC'19.12] Markov Decision Policies for Dynamic Video Delivery in Wireless Caching Networks, *IEEE Transactions on Wireless Communications*, 18(12):5705–5718 (2019). (M. Choi, A. No, M. Ji, <u>I. Kim</u>)
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- [TVT'19.05] Auction-Based Charging Scheduling With Deep Learning Framework for Multi-Drone Networks, *IEEE Transactions on Vehicular Technology*, 68(5):4235–4248 (2019). (M. Shin, J. Kim, M. Levorato) (Citations: 100+)
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- [ETT'19.04] Thriving on Chaos: Proactive Detection of Command and Control Domains in Internet of Things-Scale Botnets using DRIFT, *Transactions on Emerging Telecommunications Technologies (Wiley)*, 30(4):e3505 (2019). (J. Spaulding, J. Park, <u>J. Kim</u>, D. Nyang, A. Mohaisen)
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 - [TVT'18.04] Adaptive Detector Selection for Queue-Stable Word Error Rate Minimization in Connected Vehicle Receiver Design, *IEEE Transactions on Vehicular Technology*, 67(4):3635–3639 (2018). (M. Choi, J. Kim, J. Moon)
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- [Access'17.06] Adaptive Resource Balancing for Serviceability Maximization in Fog Radio Access Networks, *IEEE Access*, 5:14548–14559 (2017). (N.-N. Dao, J. Lee, D.-N. Vu, J. Paek, J. Kim, S. Cho, K. Chung, C. Keum)
 - [VTM'17.03] The Useful Impact of Carrier Aggregation: A Measurement Study in South Korea for Commercial LTE-Advanced Networks, *IEEE Vehicular Technology Magazine*, 12(1):55–62 (2017). (S. Lee, S. Hyeon, J. Kim, H. Roh, W. Lee)

◄ 2016 ►

- [TVT'16.12] Performance of Video Streaming in Infrastructure-to-Vehicle Telematic Platforms With 60-GHz Radiation and IEEE 802.11ad Baseband, *IEEE Transactions on Vehicular Technology*, 65(12):10111–10115 (2016). (*I. Kim., S. Kwon, G. Choi*)
- [Access'16.12] Numerical Simulation Study for Frequency Sharing between Micro-Cellular Systems and Fixed Service Systems in Millimeter-Wave Bands, *IEEE Access*, 4:9847–9859 (2016). (*I. Kim, L. Xian, A.S. Sadri*)
 - [TON'16.08] Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery, *IEEE/ACM Transactions on Networking*, 24(4):2319–2331 (2016). (*J. Kim, G. Caire, A.F. Molisch*) (Citations: 200+)

 (Best Reading Papers in Device-to-Device Communications by IEEE Communications Society)
- [JRTIP'16.08] Stochastic Stable Buffer Control for Quality-Adaptive HEVC Video Transmission in Enterprise WLAN Architectures, *Journal of Real-Time Image Processing (Springer)*, 12(2):465–471 (2016). (*J. Kim, E.-S. Ryu*)

4 2007–2015 ▶

- [TII'15.12] Energy-Efficient Dynamic Packet Downloading for Medical IoT Platforms, *IEEE Transactions on Industrial Informatics*, 11(6):1653–1659 (2015). (*I. Kim*)
- [TSMC'15.11] Stochastic Decision Making for Adaptive Crowdsourcing in Medical Big-Data Platforms, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 45(11):1471–1476 (2015). (J. Kim, W. Lee)
- [MTAP'15.10] Interference Impacts on 60 GHz Real-Time Online Video Streaming in Wireless Smart TV Platforms, *Multimedia Tools and Applications (Springer)*, 74(19):8613–8629 (2015). (*J. Kim, S.-N. Hong*)
 - [IJEC'15.07] Error Concealment Mode Signaling for Robust Mobile Video Transmission, International Journal of Electronics and

- Communications (Elsevier), 69(7):1070-1073 (2015). (E.-S. Ryu, <u>I. Kim</u>)
- [TS'15.05] Dynamic Two-Stage Beam Training for Energy-Efficient Millimeter-Wave 5G Cellular Systems, *Telecommunication Systems (Springer)*, 59(1):111–122 (2015). (*I. Kim, S.-N. Hong*)
- [CAEE'15.04] Adaptive Buffer Control for Distributed Autonomous Robust Routing in Mobile Surveillance Robots, *Computers and Electrical Engineering (Elsevier)*, 43:306–316 (2015). (J. Kim, S.-N. Hong)
 - [JCN'14.10] Fast Millimeter-Wave Beam Training with Receive Beamforming, *Journal of Communications and Networks*, 16(5):512–522 (2014). (*J. Kim, A.F. Molisch*) (Citations: 100+)
 - [IET'14.10] Quality of Video Streaming in 38 GHz Millimetre-Wave Heterogeneous Cellular Networks, *IET Electronics Letters*, 50(21):1526–1528 (2014). (*J. Kim, E.-S. Ryu*)
 - [CL'14.09] Joint Coding and Stochastic Data Transmission for Uplink Cloud Radio Access Networks, *IEEE Communications Letters*, 18(9):1619–1622 (2014). (S.-N. Hong, J. Kim)
 - [CL'14.07] A Low-Complexity Algorithm for Neighbor Discovery in Wireless Networks, *IEEE Communications Letters*, 18(7):1119–1122 (2014). (S.-N. Hong, J. Kim)
 - [CL'14.03] Fast and Low-Power Link Setup for IEEE 802.15.3c Multi-Gigabit/s Wireless Sensor Networks, *IEEE Communications Letters*, 18(3):455–458 (2014). (*J. Kim, A. Mohaisen, J.-K. Kim*)
 - [TBC'13.09] Joint Scalable Coding and Routing for 60 GHz Real-Time Live HD Video Streaming Applications, *IEEE Transactions on Broadcasting*, 59(3):500–512 (2013). (*J. Kim, Y. Tian, S. Mangold, A.F. Molisch*)
 - [IET'13.02] Distributed Stochastic Buffering for Enterprise WLAN Architectures, *IET Electronics Letters*, 49(4):302–304 (2013). (*I. Kim, E.-S. Ryu*)
 - [TCE'07.11] Movement-Aware Vertical Handoff of WLAN and Mobile WiMAX for Seamless Ubiquitous Access, *IEEE Transactions on Consumer Electronics*, 53(4):1268–1275 (2007). (W. Lee, E. Kim, J. Kim, I. Lee, C. Lee) (Citations: 100+)
 - [TCE'07.05] Coverage-Time Optimized Dynamic Clustering of Networked Sensors for Pervasive Home Networking, *IEEE Transactions on Consumer Electronics*, 53(2):433–441 (2007). (*I. Kim, W. Lee, E. Kim, D.-W. Kim, H. Kim*)
 - [CL'07.01] Optimized Transmission Power Control of Interrogators for Collision Arbitration in UHF RFID Systems, *IEEE Communications Letters*, 11(1):22–24 (2007). (<u>I. Kim</u>, W. Lee, E. Kim, D. Kim, K. Suh)

Patents (Granted), totally, 71

- 21 US Patents: (US 10637154), (US 9973364), (US 9887755), (US 9786985), (US 9167562), (US 8842640), (US 8761063), (US 8738068), (US 8619741), (US 8605634), (US 8599731), (US 8565200), (US 8547889), (US 8503317), (US 8493949), (US 8493948), (US 8483171), (US 8422372), (US 8416782), (US 8411644), (US 8379612)
- 26 Korean Patents: (KR 102573880), (KR 102523056), (KR 102522930), (KR 102500352), (KR 102492736), (KR 102472809), (KR 102444449), (KR 102442891), (KR 102433897), (KR 102370599), (KR 102340895), (KR 102293287), (KR 102244380), (KR 102240442), (KR 102240425), (KR 102234007), (KR 102178895), (KR 102167344), (KR 102052835), (KR 102015429), (KR 101663613), (KR 101619964), (KR 101606951), (KR 101567829), (KR 101558017), (KR 100779165)
- 7 European Patents: (EP 3255730), (EP 2441203), (EP 2422578), (EP 2343836), (EP 2282601), (EP 2262342), (EP 2260669)
- 11 Chinese Patents: (CN 107634349), (CN 102461318), (CN 102461050), (CN 102388658), (CN 102349340), (CN 102342162), (CN 102318430), (CN 102318425), (CN 102204115), (CN 102132602), (CN 102057739)
- 6 Japanese Patents: (JP 5584209), (JP 5584205), (JP 5580308), (JP 5508403), (JP 5368573), (JP 5364785)

Research Supervision and Teaching Experience

Research Supervision

■ Ph.D. Students and Alumni

- Dr. Soohyun Park ('19.03-'23.08 (MS-PhD), '23.09-'24.02 (Postdoc)), Professor at Sookmyung Women's University
- Dr. Hankyul Baek ('21.03-'24.02 (MS-PhD), '24.03-'25.08 (Postdoc)), Active Member
- Hyunsoo Lee ('21.03–), Active Member
- Seok Bin Son ('22.09–), Active Member
- Gyu Seon Kim ('23.03-), Active Member
- Sungjoon Lee ('24.03–), Active Member
- Emily Jimin Roh ('24.03-), Active Member

■ M.S. Students and Alumni

Kyeongseon Kim ('17.09-'19.08, POSTECH (was with Upstage, LG AI Research)), Dohyun Kwon ('18.03-'20.02, Hyundai Motors Group), Dohyun Kim ('18.03-'20.02, Naver), MyungJae Shin ('18.03-'20.02, Naver), Jaeho Choi ('19.03-'21.02, Korea Meteorological Administration, Military Service Exception), Jaehyun Chung ('23.09-, Active), Yeryeong Cho ('24.03-, Active), Chaemoon Im ('24.03-, Active)

■ Postdoctoral Scholars

- Dr. Minseok Choi ('18.09-'19.02, jointly with Prof. Andreas F. Molisch (USC)), Professor at Kyung Hee University
- Dr. Soyi Jung ('21.03-'21.08, jointly with Prof. Marco Levorato (UC-Irvine)), Professor at Ajou University
- Dr. Ijaz Ahmad (11/2023–, jointly with Prof. Seokjoo Shin (Chosun Univ.)), Active Member
- Dr. Joo Yong Shim (03/2024–, jointly with Prof. Jong-Kook Kim (Korea Univ.)), Active Member

■ Ph.D. Students and Alumni (Tight Collaboration for Ph.D. Dissertation)

- Dr. Seungyo Ryu (Primary Advisor: Prof. Dongseung Kim at Korea Univ.), Researcher at LG Electronics, Korea
- Intel Corporation (Santa Clara, California, USA), Graduate Interns
 - Dr. Minseok Choi, Ph.D. in EE from KAIST ('16.02–'16.07), now with Kyung Hee University, Korea
 - Dr. Hidekazu Shimodaira, Ph.D. in EEE from Tokyo Institute of Technology ('15.07-'15.12), now with NTT DOCOMO, Japan

■ USC Viterbi School of Engineering (Los Angeles, California, USA), Graduate Students

- Feiyu Meng, M.S. in EE from USC (Summer 2013, Fall 2013), now with Apple, Silicon Valley, CA, USA
- Vivek Sankaravadivel, M.S. in EE from USC (Spring 2011, Fall 2011), now with Uber, Silicon Valley, CA, USA

Teaching Experience

■ Korea University – Graduate Courses, Faculty Member

- IT R&D Policies 1 (ECE723): Fall 2020
- Design and Analysis of Wireless Communication Systems (ECE721): Spring 2021
- Sensor Networks (ECE662): Spring 2023
- Advanced Network Theory (ECE657): Fall 2022
- Smart Mobile Platform (ECE654): Fall 2023, Fall 2021, Fall 2020, Fall 2019
- Advanced Topics in Socialware IT (ECE545): Spring 2022
- Queueing Theory 1 (ECE527): Fall 2024
- Wireless and Mobile Networks (ECE522): Spring 2024, Spring 2020
- Wireless Network 2 (ITH525): Fall 2022
- Wireless Network 1 (ITH524): Spring 2021

■ Korea University – Undergraduate Courses, Faculty Member

- Introduction to Artificial Intelligence (IWC420): Winter 2023-2024, Winter 2022-2023, Winter 2021-2022
- Introduction to Computer Science (IWC293): Winter 2023-2024
- Data Communications (KECE316): Fall 2020
- Digital System Design and Laboratory (KECE210): Fall 2020
- Probability and Random Process (KECE209): Spring 2024, Spring 2023, Spring 2022 (Best Teaching Award, Top 20%), Spring 2021 (Best Teaching Award, Top 20%), Spring 2020
- Digital System (KECE207): Spring 2020
- Computer Language and Laboratory (EGRN151): Fall 2024, Fall 2023, Fall 2022, Fall 2021 (Granite Tower Best Teaching Award, Top 5%), Fall 2020 (Best Teaching Award, Top 20%), Fall 2019 (Granite Tower Best Teaching Award, Top 5%)
- Introduction to Communication/Computing (COMM105): Spring 2024, Spring 2023
- Object-Oriented Programming (SEMI104): Fall 2021 (Best Teaching Award, Top 20%)
- Introduction to Computers (SEMI103): Spring 2021 (Granite Tower Best Teaching Award, Top 5%)
- Future Mobility Technology (GEQR075): Spring 2023, Spring 2022 (Granite Tower Best Teaching Award, Top 5%)
- Data Science and Artificial Intelligence (GECT003): Fall 2024 (2 classes)
- SW Programming Basics (GECT002): Spring 2024 (3 classes)

■ Chung-Ang University – College of Computer Science and Software, Faculty Member

- Optimal Design Theory and Applications (Graduate): Spring 2019, Spring 2018, Spring 2017
- Topics in Computer Science and Engineering (Graduate): Fall 2018, Fall 2017, Fall 2016
- Numerical Analysis (Undergraduate): Spring 2019
- Compiler Design (Undergraduate): Spring 2019, Spring 2018, Spring 2017
- Principles of Programming Languages (Undergraduate): Fall 2018, Fall 2017, Fall 2016
- Algorithm Analysis (Undergraduate): Fall 2016
- Operating Systems (Undergraduate): Spring 2017, Spring 2016
- Calculus (Undergraduate): Spring 2017, Spring 2016
- Mobile Application Development (Undergraduate): Fall 2018, Fall 2017

■ University of Southern California – Viterbi School of Engineering, Teaching Assistant

- Wireless and Mobile Networks Design and Lab [EE579] (Spring 2013), Lectured by Professor Murali Annavaram Graduate Course dedicated to Android Mobile Platform Research and Programming
- Programming Systems Design [CSci455x] (Spring 2012, Fall 2012)
 Undergraduate Course dedicated to Object-Oriented Programming (Java and C++) and Advanced Data Structures

Professional Academic Activities

Academic Conference, Workshop, Forum, Symposium Organization (Selected)

■ Organizing Committee (OC) Activities

- IEEE WiOpt: 2024 (Workshop Chair), 2022 (Organizer, Caching, Computing and Delivery in Wireless Networks Workshop)
- IEEE GLOBECOM: 2015 (Organizer, Workshop on Millimeter-Wave Backhaul and Access)
- IEEE ICC: 2022 (Patronage Chair)
- IEEE VTS APWCS: 2023 (Finance Co-Chair), 2022 (Finance Chair), 2021 (Finance Co-Chair), 2017 (Publication Vice Chair)
- IEEE ICASSP: 2018 (Special Session Organizing Chair, Special Session on Cybersecurity and Privacy)
- IEEE APCC: 2022 (Local Arrangement Chair)
- ACM CoNEXT: 2019 (Poster Session Chair)
- IEEE ICTC: 2023 (Workshop Co-Chairs), 2022 (TPC Vice Chair for Administration, a.k.a., Secretary), 2021 (Workshop Organizer, Workshop on KU-AIER (Korea University, A.I. Engineering Research)), 2021 (Secretary), 2020 (Secretary), 2020 (Special Session Organizing Chair, Special Session on KU-AIER (Korea University, A.I. Engineering Research), 2019 (Secretary), 2018 (Secretary)
- IEEE ICUFN: 2024 (Workshop Chair), 2023 (Workshop Chair), 2022 (Workshop Chair), 2021 (Wo
- IEEE ICOIN: 2024 (Workshop Chair), 2023 (Workshop Co-Chair), 2023 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2022 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2020 (Finance Co-Chairs), 2021 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2020 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility)
- IEEE ICEIC: 2021 (Local Arrangement Chair)
- IEEE ICAIIC: 2019 (Publication Chair)

■ Quantum Computing and Artificial Intelligence

- IEEE ICASSP 2025: Organizer, Workshop on Quantum Machine Learning in Signal Processing and Artificial Intelligence (Hyderabad, India, 04/2025)
- IEEE Quantum Week 2024: Organizer, Workshop on Quantum Computing and Reinforcement Learning (Montréal, Canada, 09/2024)
- IJCAI 2024: Organizer, Workshop on Quantum Algorithms, Optimization, and Artificial Intelligence (Jeju, Korea, 08/2024)

Talks and Presentations (Selected)

■ IEEE Distinguished Lectures

Federated Learning for Medical and Mobile Platforms: Motivation, Challenges, and Potential Solutions
 California State University, Long Beach (Long Beach, CA, USA, 01/2020), Hosted by Prof. Sean Kwon and Prof. Henry Yeh IEEE Systems Council – IEEE Coastal Los Angeles Section Chapter

■ IEEE/ACM Conference Tutorials and Special Session Talks

- ACM CIKM 2024 Tutorial, Hands-On Introduction to Quantum Machine Learning, Joint Presentation with Dr. Samuel Yen-Chi Chen (Wells Fargo, New York, NY, USA)
- ICIT 2024 Tutorial, Quantum Reinforcement Learning: Concepts, Models, and Applications
- IEEE ICUFN 2022 Tutorial, A Paradigm Shift in Future Networks with Quantum Deep Learning
- IEEE ICOIN 2022 Tutorial, Advanced Deep Learning Methods for Autonomous Mobility
- IEEE ICUFN 2021 Tutorial, Distributed and Split Deep Learning: Theory and Applications
- IEEE ICAIIC 2021 Tutorial, Multi-Agent Deep Reinforcement Learning for Connected and Autonomous Vehicles
- IEEE ICTC 2019 Special Session Talk, Advanced Deep Learning Methods and Their Applications to Distributed and Network Platforms
- IEEE ICOIN 2019 Tutorial, Distributed Platform Research for Emerging Deep Learning Applications
- IEEE ICC 2018 Tutorial, Securing the Internet of Things: A Machine Learning Approach (Making Machine Learning Practical), Joint Presentation with Prof. Aziz Mohaisen (University of Central Florida, Orlando, FL, USA)

■ Industry Presentations (Selected)

- <u>International:</u> Huawei Research Center (Text-Aware Image Understanding Workshop) (Online, 11/2021), Ericsson-LG (R&D Hackathon / AI Learning Challenge Keynote Speech) (Seoul, Korea, 05/2021), Huawei Research Center (Deep Learning/Machine Learning for Computer Vision) (Online, 09/2020), Huawei Research Center (Fundamental and Applied Problems of Machine Learning) (Nizhny Novgorod, Russia, 12/2019), City University of Hong Kong (Hong Kong, 11/2018), Intel Communications and Devices Group (iCDG) [Cellular Modem TechTalk] (Santa Clara, CA, USA, 01/2016), Nokia Research Center at Berkeley (Berkeley, CA, USA, 08/2014), Qualcomm Research Center (San Diego, CA, USA, 02/2014)
- <u>Korea:</u> LIG Nex1 (Pankyo), Solvit System (Seoul), Korea Institute of Machinery & Materials (Daejeon), Korea Meteorological Administration (Seoul), Hyundai NGV (Seoul), SK Telecom (SKT) (Seoul), Agency for Defense Development (ADD) (Seoul), SK Hynix (Icheon), Naver Labs Robotics Lab (Pankyo), ETRI (Daejeon), KT AI Tech Center (Seoul), LG Electronics (Seoul), Posco ICT (Pankyo), LG U+ (Seoul), SK Broadband (Seoul), Korea Electronics Technology Institute (KETI) (Pankyo), Korea Electric Power Corporation (KEPCO) Research Institute (Daejeon), Samsung Electronics (Hwasung)

■ Demonstration at Academic Conferences

- IEEE ICDCS 2023 (Hong Kong, China), EQuaTE: Efficient Quantum Train Engine Design and Demonstration for Dynamic Software Analysis
- IEEE ICDCS 2023 (Hong Kong, China), Multi-Site Clinical Federated Learning using NLP Models and NVFlare
- IEEE ICDCS 2022 (Bologna, Italy), Quantum Multi-Agent Reinforcement Learning via Variational Quantum Circuit Design
- IEEE INFOCOM 2021 (Online), Visualization of Deep Reinforcement Autonomous Aerial Mobility Learning Simulations
- IEEE/CVF ICCV 2019 (Seoul, Korea), Deep Multi-modal Unsupervised Pen Pressure Stylization
- ACM MobiSys 2019 (Seoul, Korea), Light-Weight Programming Language for Blockchain
- IEEE GLOBECOM 2015 (Industry Demonstration ID-14) (San Diego, CA, USA), mmWave MAA Client Access & Backhaul Platform
- IEEE GLOBECOM 2014 (Expo) (Austin, TX, USA), mmWave Modular Antenna Array for Next-Generation Wireless Networks
- ACM MobiCom 2013 (Miami, FL, USA), Adaptive Video Streaming for Device-to-Device Mobile Platforms

■ Prototyping at Industry Exhibitions

- Mobile World Congress (MWC) 2016 (Barcelona, Spain, 02/2016), Mobile Edge mmWave Backhaul and Access
- Intel 360 degree 2016 (Anaheim, CA, 02/2016), mmWave MAA Client Access & Backhaul Platform
- Intel Asia Innovation Summit 2015 (Taipei, Taiwan, 10/2015), mmWave Modular Antenna Array Client Access & Backhaul Platform
- Intel Developer Forum (IDF) 2015 (San Francisco, CA, USA, 08/2015), Enabling 5G Densification
- Intel Design and Test Technology Conference (DTTC) 2015 (Portland, OR, USA, 08/2015), Enabling 5G Densification
- Mobile World Congress (MWC) 2015 (Barcelona, Spain, 03/2015), Enabling 5G Densification

Technical Program Committee (TPC)

■ Chair-Level Activities (Selected)

- CCNC: 2022 (Track Chair, T7 (Security, Privacy and Content Protection))
- NAS: 2019 (Track Co-Chair, Network Track)
- GLOBECOM: 2015 (TPC Chair, Workshop on Millimeter-Wave Backhaul and Access)

■ General Activities (Selected)

- IEEE ICC: 2024 (Selected Areas in Communications Integrated Sensing and Communication Track), 2024 (Selected Areas in Communications Reconfigurable Intelligent Surfaces and Smart Environments Track), 2023 (Wireless Communications Symposium), 2023 (Selected Areas in Communications Integrated Sensing and Communication Track), 2023 (Selected Areas in Communications Reconfigurable Intelligent Surfaces and Smart Environments Track), 2022 (Wireless Communications Symposium), 2022, 2021 (Wireless Communications Symposium)
- IEEE GLOBECOM: 2022 (Selected Areas in Communications Machine Learning for Communications), 2021 (Selected Areas in Communications Machine Learning for Communications), 2021 (IoTSN), 2020 (Ad-hoc and Sensor Networks Symposium)
- IEEE MASS: 2024 (Algorithms and Theory Track), 2023, 2022, 2021, 2012 (Workshop on Internet of Things Technology and Architectures)
- IEEE Quantum Week: 2024 (Quantum Machine Learning Track)

- ACM MobiHoc: 2019
- IEEE ICCCN: 2021
- IEEE WCNC: 2023, 2022, 2021, 2020, 2020 (Workshop on Aerial Communications in 5G and Beyond Networks)
- IEEE PIMRC: 2024 (Track 1: PHY & Fundamentals), 2024 (Workshop on Secured, Intelligent, and Collaborative Cell-free Networking for 6G and Beyond)
- IEEE ICDCS: 2019 (Distributed Green Computing & Energy Management)
- IEEE VTC: 2022-Fall, 2019-Spring, 2016-Spring, 2015-Spring, 2014-Fall
- IJCAI: 2024 (Workshop on Quantum Algorithms, Optimization, and Artificial Intelligence)
- Others: 2025 (ICOIN, ICTC), 2024 (COMNETSAT), 2022 (MSN (Track 3: Security, Privacy, Trust, and Blockchain), ICTC, ICCC, IPDPS (Heterogeneity in Computing Workshop), ICUFN, WCSP, COMNETSAT, CyberneticsCom, ICEIC, ICNGC), 2021 (MSN, ICTC, ICCC, ICUFN, EuCAP, COMNETSAT, ICAIIC, IGESSC, ICEIC, ICNGC, ITC-CSCC), 2020 (ICTC, ICUFN, ICCC, COMNETSAT, Blockchain, ICAIIC, IGESSC), 2019 (ICTC, ICUFN, ICCC, Blockchain, EuCAP, IGESSC, NAS (Network Track), ICPADS (Security & Dependable Computing), WISA, SecureComm, IE), 2018 (ICTC, ICUFN, IGESSC, APWCS, AsiaCCS (Workshop on Security in Cloud Computing), ATC, SigTelCom, WCSP, IE), 2017 (ICTC, ICUFN, IE), 2016 (ICUFN), 2015 (EuCAP)

References

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