Joongheon Kim

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Highlights

Research Milestones

- 106 Journals (among them, 79 IEEE Journals), https://sites.google.com/view/aimlab-kuee/publications/journals 87 Published/Accepted (among them, 69 IEEE), 5 Under-Revision, and 14 Under-Review Journals
- 10 Top-Tier Networks/Systems/Multimedia Conferences, *i.e.*, MobiHoc (2023, review), ICDCS (2023, review), INFOCOM (2023, review), WiOpt (2022), ICDCS (2022), INFOCOM (2022), ICDCS (2020), ICDCS (2018), MM (2017), MobiSys (2010)
- 3 Top-Tier AI/Learning Conferences, i.e., AAAI (2023), CIKM (2022), IJCAI (2019)
- 5384+ Citations (H-index: 35+, i10-index 130+), obtained from Google Scholar Profile (as of November 6, 2022)
- IEEE MMTC Best Journal Paper Award (2021), IEEE Communications Society
- IEEE MMTC Outstanding Young Researcher Award (2020), IEEE Communications Society
- IEEE Systems Journal Best Paper Award (2020), Top 7 among 793 accepted papers in 2019 (0.88%)
- 7 Awards from IEEE Conferences and Contests, i.e., IEEE ICTC Best Paper Award (2022), IEEE ICOIN Best Paper Award (2021), IEEE Seoul Section Student Paper Contest Awards (1 in 2020; 1 in 2019), and IEEE VTS Seoul Chapter Awards (2 in 2021; 1 in 2019)
- 6 Tutorials at IEEE Conferences, i.e., ICUFN (2022), ICOIN (2022), ICUFN (2021), ICAIIC (2021), ICOIN (2019), and ICC (2018)
- 65+ Patents are granted, and among them, 46 Granted Patents are successfully adopted by 60 GHz Millimeter-Wave IEEE 802.11 Standards, i.e., IEEE 802.11ad and IEEE 802.11ay
- Research Funds (since March 2016): 5,568,384 USD ≈ 5,568,384,000 KRW (except University Internal Funds)

Research Supervision and Teaching (As a faculty member since March 2016)

- 2 Tenure-Track Professors (formerly supervised by Prof. Joongheon Kim (Postdoctoral, Ph.D., M.S., Interns)), i.e., Minseok Choi (*Kyung Hee University, Korea*), Soyi Jung (*Ajou University, Korea*)
- 8 Best Teaching Awards at Korea University, i.e.,
 - 4 awards are for top 5% (*Granite Tower Best Teaching Award*) and 4 awards are for top 20% (*Best Teaching Award*)

IEEE Society Academic Activities

- Senior Member of the IEEE (2018–) and IEEE Membership (2005–) for 18+ years
- Distinguished Lecturer, IEEE Communications Society (ComSoc) (class of 2022–2023)

IEEE ComSoc

• Distinguished Lecturer, IEEE Systems Council (class of 2022–2024)

- IEEE Systems Council
- Editor (2022–), IEEE Transactions on Machine Learning in Communications and Networking

IEEE ComSoc IEEE VTS

- **Associate Editor (2020–)**, IEEE Transactions on Vehicular Technology
- Guest Editor (06/2022), IEEE Communications Standards Magazine (S.I. on Recent and Future Evolution of Wi-Fi) IEEE ComSoc
- IEEE Vehicular Technology Society (VTS), Seoul Chapter Treasurer for 3 years (2020–2023)
- IEEE VTS
- 99+ Technical Program Committee (TPC) and 26+ Organizing Committee (OC) Contributions for IEEE Conferences

Educational Backgrounds

- University of Southern California (USC) Viterbi School of Engineering, Los Angeles, California, USA
 - Ph.D. (08/2009–08/2014) in Computer Science (Advisor: *Prof. Andreas F. Molisch*, Fellow of the IEEE)
 - M.S. (05/2014) in Computer Science with specialization in High Performance Computing and Simulations
 - M.S. (05/2012) in Electrical Engineering
- Korea University, Seoul, Republic of Korea
 - M.S. (03/2004–02/2006) in Computer Science and Engineering
 - B.S. (03/1999–02/2004) in Computer Science and Engineering

R&D Positions

Full-Time Positions

- Korea University College of Engineering, Seoul, Republic of Korea
 - Associate Professor (03/2021-Present), Assistant Professor (09/2019-02/2021), School of Electrical Engineering
 - Adjunct Professor (03/2023–Present), Department of Communications Engineering (with Samsung Electronics)
 - Adjunct Professor (11/2022–Present), Department of Future Science and Technology Business (Graduate School)
 - Adjunct Professor (09/2022–Present), Department of Smart Convergence (Graduate School, with LG Electronics)
 - Adjunct Professor (03/2021–02/2023), Department of Semiconductor Engineering (with SK Hynix)
 - R&D Positions
 - * Vice Director (10/2020-Present), Artificial Intelligence Engineering Research Center (KU-AIER)
 - Administrative Positions
 - * Dean (06/2021–Present), Center for Teaching and Learning (CTL)
 - * Deputy Vice President (02/2022–Present), Office of Academic Affairs
 - * Steering Committee Member (09/2022–08/2023), Academic Affairs and Planning Steering Committee

- * Steering Committee Member (07/2020–06/2022), Korea University Institute of Data Science (KUIDS)
- * Steering Committee Member (06/2021–03/2022), Academic Affairs and Planning Steering Committee
- 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), CA, USA
 - Systems Engineer (09/2013–02/2016), mmWave Standards and Advanced Technology (mSAT) Team (with Dr. Ali S. Sadri)
- University of Southern California (USC) Viterbi School of Engineering, Los Angeles, CA, 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 (Advised by Prof. Andreas F. Molisch)
 - Teaching Assistant (01/2012-05/2013), Computer Science and Electrical Engineering Departments (CSCI455x and EE579)
- InterDigital, San Diego, CA, 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

Industry, Advisory, and Consulting Positions

• Samsung Electronics (C-Lab), Seoul National University R&D Center, Seoul, Republic of Korea *Advisory Professor* (02/2020–08/2020), Nonlinear Regression Deep Learning Algorithm Design and Implementation

Academia (Membership, Editorial Boards, and Services)

- IEEE
 - Senior Member (2018–), Member (2006–2017)
 - Distinguished Lecturer (2022–2023), IEEE Communications Society
 - Editor (2022-), IEEE Transactions on Machine Learning in Communications and Networking
 - 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 Treasurer (2022–Present) Chapter Treasurer (2020–2021)
 - * IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS) Organizing Committee: Finance Chair (2022), Finance Co-Chair (2021)
- Elsevier
 - *Editor* (2021–), **ICT Express** (Area: AI for ICT Applications)
 - Guest Editor (10/2022), Computer Networks (S.I. on Machine Learning (ML) and Artificial Intelligence (AI) for the Internet
 of Things, 5G, and Beyond)
 - Guest Editor (03/2022), ICT Express (S.I. on Artificial Intelligence and Machine Learning Approaches to Communication)
 - Guest Editor (06/2021), ICT Express (S.I. on Mobile and Edge Computing Systems)
 (Best Special Issue Guest Editor Award (2022))

Awards and Honors

Research and Academic Excellence (International)

- IEEE ICTC Best Paper Award (2022) IEEE Communications Society (with J.-H. Lee, D.P. Selvam, A.F. Molisch)
 - J.-H. Lee, D.P. Selvam, A.F. Molisch, and J. Kim, "Reinforcement Learning Empowered Massive IoT Access in LEO-based Non-Terrestrial Networks," *IEEE ICTC*, Jeju, Korea, October 2022.
- Best Special Issue Guest Editor Award (2022) ICT Express (Elsevier), S.I. on Mobile Edge Computing Systems (06/2021)
- Distinguished Lecturer (class of 2022–2024) IEEE Systems Council
- Distinguished Lecturer (class of 2022–2023) IEEE Communications Society
- **IEEE VTS Seoul Chapter Award (2022)** *IEEE Vehicular Technology Society* (with H. Lee) "Deep Reinforcement Learning for Loitering Munition Mobility Control: Algorithm Design and Visualization"
- Spotlight Presentation (2022) ICML Workshop on Dynamic Neural Networks (2022)
 - W.J. Yun, J.P. Kim, S. Jung, J. Park, M. Bennis, and J. Kim, "Slimmable Quantum Federated Learning," ICML Workshop on Dynamic Neural Networks, Baltimore, MD, USA, July 2022.
- IEEE MMTC Best Journal Paper Award (2021) IEEE Communications Society (with M. Choi, A.F. Molisch)
 - 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 (with Y. Kwak, S. Jung, J.-H. Kim) "Quantum Scheduling for Millimeter-Wave Observation Satellite Constellation"
- IEEE VTS Seoul Chapter Award (2021) IEEE Vehicular Technology Society (with H. Lee, S. Jung) "Distributed and Autonomous Aerial Data Collection in Smart City Surveillance Applications"
- **IEEE ICOIN Best Paper Award (2021)** *IEEE Computer Society* (with S. Jung, W.J. Yun, J.-H. Kim)
 - S. Jung, W.J. Yun, J. Kim, and J.-H. Kim, "Infrastructure-Assisted Cooperative Multi-UAV Deep Reinforcement Energy Trading Learning for Big-Data Processing," *IEEE ICOIN*, Jeju, Korea, January 2021.

- IEEE MMTC Outstanding Young Researcher Award (2020) IEEE Communications Society
- Bronze Paper Award (2020) 2020 IEEE Seoul Section Student Paper Contest (with S. Park)
 "Reliable Offloading Target Selection using Deep Reinforcement Learning for Large Fire Accident"
- IEEE Systems Journal Best Paper Award (2020) IEEE Systems Council (with M. Saad, J. Choi, D. Nyang, A. Mohaisen)
 - 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.
- Gold Paper Award (2019) 2019 IEEE Seoul Section Student Paper Contest (with J. Yoo)
 - "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 (with 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 4 Year Full Scholarship (\$30,000/year for 4 years, i.e., \$120,000)

Research and Academic Excellence (Korea Regional)

- 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
- 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

- Excellence Paper Award (02/2022) 2022 Summer Workshop on Computer Communications (SWCC) (with H. Lee, S. Jung)
- Excellence Paper Award (02/2022) 2022 KICS Winter Conference (with Y. Kim, Y.K. Lee, S. Jung)
- ICT Express Best Reviewer Award (2021) ICT Express (Elsevier) (Awarded to Soohyun Park)
- ICT Express Best Reviewer Award (2021) ICT Express (Elsevier) (Awarded to Haemin Lee)
- Haedong Paper Award (06/2021) 2021 KICS Summer Conference (with H. Baek, Y.J. Ha, M. Yoo, S. Jung)
- Excellence Paper Award (06/2021) 2021 KICS Summer Conference (with B. Lim, W.J. Yun, Y.-C. Ko)
- Excellence Paper Award (Undergraduate) (06/2021) 2021 KICS Summer Conference (with G. Lee, W.J. Yun, S. Jung)
- Encouragement Paper Award (11/2020) 2020 KICS Fall Conference (with W.J. Yun)
- Encouragement Paper Award (06/2020) 2020 KICS Summer Conference (with W.J. Yun)
- Encouragement Paper Award (02/2020) 2020 KICS Winter Conference (with S. Oh, J. Choi)
- Encouragement Paper Award (02/2020) 2020 KICS Winter Conference (with J. Kim)

Teaching and Supervision Excellence

• Granite Tower Best Teaching Award (Top 5%) – <i>Korea University</i> (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 (02/2022) 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

Business Administration

• The 5th Hyundai/Kia Motors Marketing Forum (02/2004), 2nd Prize Winner (Sales Promotion)

R&D Projects (Totally, 5,568,384 USD \approx 5,568,384,000 KRW)

<u>Industry-Funded Projects</u>	
9 ,	11/2022-11/2023
 Funded by Hyundai NGV and Hyundai/Kia Motors Company [Grant: \$100,000; Primary-PI] Mapping between Real World and Virtual Reality (VR) for End-Edged Cloud Real-Time VR Servers 	09/2020-09/2024
Funded by Samsung Electronics – Samsung Advanced Institute of Technology [Grant: \$286,000; Primary-PI]	09/2020-09/2024
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; Prim	
• Research Trends in Digital Twin Applications to Autonomous Driving Funded by <i>Hyundai NGV</i> [Grant: \$1,000; Primary-PI]	03/2022-04/2022
	02/2022-03/2022
Funded by Cipherome [Grant: \$15,000; Primary-PI]	/
• Super-Resolution Performance Optimization in Mobile Platforms Funded by Samsung SDS [Grant: \$15,000; Primary-PI]	05/2020-08/2020
	03/2020-06/2020
Funded by Samsung Electronics [Grant: \$12,000; Primary-PI]	/
• Visual Recognition Software Implementation using Deep Learning Tools Funded by Hyundai NGV and Hyundai/Kia Motors Company [Grant: \$59,500; Primary-PI]	05/2019–11/2019
	06/2017–12/2017
Funded by Samsung Electronics Software Center [Grant: \$80,000; Co-PI]	
University/Center-Level Projects	
	04/2021-12/2025
Funded by Institute for ICT Promotion (IITP) [2021-0-00467, Grant: \$154,000 (2 yrs); Co-PI]	
0 7	10/2020–12/2022
Funded by <i>Agency for Defense Development (ADD)</i> [UD200027ED, Grant: \$130,000; Co-PI], PI: Kwangwoon • 5G/Unmanned Vehicle Research Center (5G/UV-RC) – <i>ITRC</i>	06/2020–12/2022
Funded by <i>Institute for ICT Promotion (IITP)</i> [2020-0-01637, Grant: \$55,709; Co-PI], PI: Hanyang University	
1	08/2018–12/2021
 Funded by <i>Institute for ICT Promotion (IITP)</i> [2018-0-01833; Co-PI], PI: Seoul National University Hospital Intelligent Internet of Energy (IoE) Data Research Center – <i>ITRC</i> 	(Korea) 02/2020–05/2020
Funded by <i>Institute for ICT Promotion (IITP)</i> [2018-0-01396; Co-PI], PI: Kookmin University (Korea)	02/2020-03/2020
Government-Funded Projects	
• AI Bots Collaborative Platform and Self-Organizing Artificial Intelligence Technology Development	04/2022-12/2026
Funded by Institute for ICT Promotion (IITP) [xxx, Grant: \$950,000; Co-PI]	01, 2022 12, 2020
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
	06/2021-05/2024
Funded by National Research Foundation of Korea (Basic Research Lab) [2021R1A4A1030775, Grant: \$161,00	
Development of Integrated Development Framework that supports Automatic Neural Network Gener Development on the Province Pro	ation and 04/2021–12/2023
Deployment optimized for Runtime Environment Funded by <i>Institute for ICT Promotion (IITP)</i> [2018-0-00170, Grant: \$230,000; Co-PI]	04/2021-12/2023
Integrated Perception Technology Developments for Public Safety Platforms	06/2019-05/2023
Funded by National Research Foundation of Korea [2019M3E3A1084054, Grant: \$400,000; Co-PI]	10 /2010 04 /2022
• 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
	06/2019-02/2022
Funded by National Research Foundation of Korea [2019R1A2C4070663, Grant: \$275,000; Primary-PI]	07 (2010, 12 (2021
• Development of Privacy-Reinforcing Distributed Transfer-Iterative Learning Algorithm Funded by Ministry of Health and Welfare [HI19C0842, Grant: \$150,000; Co-PI]	07/2019–12/2021
	06/2018-06/2021
Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$246,464; Co-PI]	,
	04/2019–12/2020
 Funded by Ministry of Health and Welfare [HI19C0572, Grant: \$90,000; Co-PI] Network Engineering: Development and Application of Novel Data Science Driven 	
	06/2017-05/2020
Funded by National Research Foundation of Korea (Basic Research Lab) [2017R1A4A1015675, Grant: \$150,00	
• mmWave High-Speed Networking Platform Design for Next-Generation Convergence Services Funded by National Research Foundation of Korea [2016R1C1B1015406, Grant: \$150,000; Primary-PI]	06/2016–05/2019
- 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 Institute for ICT Promotion (IITP) [Grant: \$33,333; Primary-PI]	

Government-Funded Research Institute Projects

 Autonomous Intelligent COA Search Methods for Cyber-Attacks Funded by Agency for Defense Development (ADD) [xxx, Grant: \$100,000; Primary-PI]

Research on Intelligent Agent-based CPS Security and Reliability Funded by Telecommunications Technology Association (TTA) [Grant: \$48,000; Primary-PI] 05/2021-11/2021

12/2021-11/2022

Multi-GPU based Automotive HPC Platform Development

04/2020-10/2020

(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Information) Funded by Electronics and Telecommunications Research Institute [19HS2720 (IITP 2017-0-00068), Grant: \$20,000; Primary-PI]

• 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; Co-PI] Measurement and Analysis of Multi-Task GPU Scheduling Delays

05/2019-10/2019

(A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Information) Funded by Electronics and Telecommunications Research Institute [19HS2720 (IITP 2017-0-00068), Grant: \$40,000; Primary-PI]

 Probabilistic Decision Making and Econometric Methods for Micro-Grid Funded by Korea Electric Power Corporation (KEPCO) Research Institute [R17XA05-41, Grant: \$143,128; Primary-PI]

05/2017-04/2019

GPU Scheduling Performance Analysis under Queueing Delay Considerations 05/2018-10/2018 (A Development of Driving Decision Engine for Autonomous Driving using Driving Experience Information) Funded by Electronics and Telecommunications Research Institute [18HS1420 (IITP 2017-0-00068), Grant: \$40,000; Primary-PI]

Improving Massive Deep Learning Training via Computation and Communication Acceleration (Development of HPC System for Accelerating Large-Scale Deep Learning)

04/2018-10/2018

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 Information) Funded by Electronics and Telecommunications Research Institute [17HS2720 (IITP 2017-0-00068), Grant: \$40,000; Primary-PI]

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

- 5384+ Citations (H-index: 35+, i10-index 130+), obtained from Google Scholar Profile (as of November 6, 2022)
- Totally, 106 journals, https://sites.google.com/view/aimlab-kuee/publications/journals
 - 79 IEEE publications, among them, 47 publications are in IEEE Magazines and ComSoc/VTS Journals

Dissertation, Books, and Book Chapters

■ Ph.D. Dissertation

• J. Kim, 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.

• X. Lin, J. Zhang, Y. Liu, and J. Kim, Fundamentals of 6G Communications and Networking, Springer (Working in Progress).

■ Book Translation (from English to Korean)

 J. Choi, J. Kim, J. No, C. Sohn, D. Ahn, H. Ahn, H. Lee, and H. Jung, Programming in ANSI C, Haksan Media, January 2021 (8th Edition, ISBN: 979-1185294315)., Originally written by E. Balagurusamy (Publisher: McGraw Hill, ISBN: 978-9351343202, January 2019)

■ Book Chapters

- S. Park, D. Kim, and J. Kim, "Dynamic Decision-Making for Stabilized Deep Learning Software Platforms," Advances and Applications in Deep Learning, IntechOpen, September 2020., (Editor: M.A. Aceves-Fernandez)
- A.F. Molisch, M. Ji, J. Kim, D. Burghal, and A.S. Tehrani, "Device-to-Device Communications," Towards 5G: Applications, Requirements and Candidate Technologies, Wiley, January 2017., (Editors: R. Vannithamby, S. Talwar)
- J. Kim, "Millimeter-Wave (mmWave) Medium Access Control: A Survey," Opportunities in 5G Networks: A Research and Development Perspective, CRC Press, April 2016., (Editor: F. Hu)
- J. Kim, "Millimeter-Wave (mmWave) Radio Propagation Characteristics," Opportunities in 5G Networks: A Research and Development Perspective, CRC Press, April 2016., (Editor: F. Hu)
- J. Kim, E. Kim, W. Lee, D. Kim, J. Choi, J. Jung, and C.K. Shin, "Weighted Localized Clustering: A Coverage-Aware Reader Collision Arbitration Protocol in RFID Networks," Handbook on Mobile and Ubiquitous Computing: Status and Perspective, CRC Press, October 2012., (Editors: L.T. Yang, E. Syukur, S.W. Loke)

• <u>J. Kim</u>, W. Lee, E. Kim, and T.K. Shih, "Coverage-Time Optimized Dynamic Clustering for Two-Tiered WM2Nets," *Wireless Mesh Networking*, McGraw-Hill, August 2008., (Editor: G. Aggelou)

Selected Papers, i.e., (i) Journals and (ii) Top-Tier/Honored/Awarded Conferences

■ Quantum Deep Learning: Algorithms, Systems, and Applications

- [SPL] (WIP, Review: 15-Nov-2022) Quantum Split Learning, IEEE Signal Processing Letters. (W.J. Yun, H. Baek, J. Kim)
- [TNNLS] (Review) Stereoscopic Scalable Quantum Convolutional Neural Networks, *IEEE Transactions on Neural Networks and Learning Systems*. (H. Baek, W.J. Yun, J. Kim)
 - [SPL] (Review) Projection Valued Measure-based Quantum Machine Learning for Multi-Class Classification, *IEEE Signal Processing Letters*. (W.J. Yun, H. Baek, J. Kim)
 - [SPL] (Review) Scalable Quantum Convolutional Neural Networks, IEEE Signal Processing Letters. (H. Baek, W.J. Yun, J. Kim)
- [TNNLS] (Review) SlimQFL: Quantum Federated Learning using Slimmable Neural Networks, *IEEE Transactions on Neural Networks and Learning Systems*. (W.J. Yun, J.P. Kim, S. Jung, J. Park, M. Bennis, J. Kim)
 - [IOT] (Review) Quantum Multi-Agent Actor-Critic Neural Networks for Internet-Connected Multi-Robot Coordination in Smart Factory Management, *IEEE Internet of Things Journal*. (W.J. Yun, J.P. Kim, S. Jung, J.-H. Kim, J. Kim)
- [INFOCOM] (Double Blind Review) IEEE INFOCOM (Conference on Computer Communications), May 2023. (W.J. Yun, J.P. Kim, H. Baek, S. Jung, J. Park, M. Bennis, J. Kim)
 - [AAAI'23] (Double Blind Review) AAAI (AAAI Conference on Artificial Intelligence), February 2023. (W.J. Yun, J. Park, J. Kim)
- [ICTE.accept] Quantum Distributed Deep Learning Architectures: Models, Discussions, and Applications, ICT Express (Elsevier), v(n):ppp-ppp, Month Year. (Y. Kwak, W.J. Yun, J.P. Kim, H. Cho, J. Park, M. Choi, S. Jung, J. Kim)
 - [ICML'22] Slimmable Quantum Federated Learning, ICML Workshop on Dynamic Neural Networks, July 2022. (W.J. Yun, J.P. Kim, S. Jung, J. Park, M. Bennis, J. Kim)
 (Spotlight, Oral Presentation)
 - [ICDCS'22] Quantum Multi-Agent Reinforcement Learning via Variational Quantum Circuit Design, IEEE ICDCS (International Conference on Distributed Computing Systems), July 2022. (W.J. Yun, Y. Kwak, J.P. Kim, H. Cho, S. Jung, J. Park, J. Kim)
- [APWCS'21] Quantum Scheduling for Millimeter-Wave Observation Satellite Constellation, *IEEE VTS Asia Pacific Wireless Communications Symposium*, August 2021. (J. Kim, Y. Kwak, S. Jung, J.-H. Kim)

 (IEEE VTS Seoul Chapter Award)

■ Learning and Optimization for Mobility, Networks, Multimedia, and Internet-of-Things

- [ISJ] (WIP, Review: 15-Nov-2022) Real-Time High-Quality Visualization for Volumetric Contents Rendering: A Lyapunov Optimization Framework, *IEEE Systems Journal*. (H. Baek, R. Lee, J.-Y. Kim, Y.K. Lee, S. Jung, J. Kim)
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Patents (Granted), totally, 65

- 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)
- 20 Korean Patents: (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)

Teaching Experience, Research Supervision, and Professional Activities

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
 - Advanced Network Theory (ECE657): Fall 2022
 - Smart Mobile Platform (ECE654): Fall 2021, Fall 2020, Fall 2019
 - Advanced Topics in Socialware IT (ECE545): Spring 2022
 - *Wireless and Mobile Networks (ECE522):* Spring 2020
 - Wireless Network 2 (ITH525), Graduate School of Engineering and Technology: Fall 2022
 - Wireless Network 1 (ITH524), Graduate School of Engineering and Technology: Spring 2021

■ Korea University – Undergraduate Courses, Faculty Member

- *Introduction to Artificial Intelligence (IWC420):* Winter 2021 (12/2021–01/2022)
- Data Communications (KECE316): Fall 2020
- Digital System Design and Laboratory (KECE210): Fall 2020

- Probability and Random Process (KECE209): 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 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%)
- 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 2022 (Granite Tower Best Teaching Award, Top 5%)

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

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

Research Collaboration and Supervision

■ Postdoctoral Scholars

- Dr. Minseok Choi (09/2018–02/2019), Professor at Kyung Hee University, Yongin, Korea Jointly with University of Southern California (co-advised by Prof. Andreas F. Molisch)
- Dr. Soyi Jung (03/2021–08/2021), Professor at Ajou University, Suwon, Korea
 Jointly with University of California at Irvine (co-advised by Prof. Marco Levorato)
- Dr. Ju-Hyung Lee (08/2021–), Postdoctoral Visiting Scholar at University of Southern California (co-advised by Prof. Andreas F. Molisch)

■ Ph.D. Course Students and Alumni

- Soohyun Park (03/2019–08/2023 (expected)), Postdoctoral Scholar at Korea University, Seoul, Korea
- Haemin Lee (09/2020–02/2024 (expected)), Postdoctoral Scholar at Yonsei University, Seoul, Korea
- Won Joon Yun (03/2021–08/2024 (expected))
- Hankyul Baek (03/2021–08/2024 (expected)), Postdoctoral Scholar at Korea University, Seoul, Korea
- Hyunsoo Lee (03/2021–)
- Chanyoung Park (09/2022–)
- Gyu Seon Kim (03/2023-)

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

- Minseok Choi (Advisor: Prof. Jaekyun Moon at KAIST), Professor at Kyung Hee University, Yongin, Korea
- Laihyuk Park (Advisor: Prof. Sungrae Cho at CAU), Professor at Seoul National University of Science and Technology, Seoul, Korea
- Seungyo Ryu (Advisor: Prof. Dongseung Kim at Korea University), Researcher at LG Electronics, Changwon, Korea
- Soyi Jung (Advisor: Prof. Jae-Hyun Kim at Ajou University), Professor at Ajou University, Suwon, Korea

■ M.S. Course Students and Alumni

- Kyeongseon Kim (09/2017–08/2019), Researcher at Upstage, Seongnam, Korea
- Dohyun Kwon (03/2018–02/2020), Researcher at Hyundai Motors Group, Uiwang, Korea
- Dohyun Kim (03/2018–02/2020), Researcher at Naver Corporation, Seongnam, Korea
- MyungJae Shin (03/2018–02/2020), Engineer at mofl (startup), Daejeon, Korea
- Jaeho Choi (03/2019–02/2021), Researcher (Military Service Exception) at Korea Meteorological Administration, Seoul, Korea
- Youngkee Kim (03/2021–02/2023), Researcher at Korea Electronics Technology Institute (KETI), Seoul, Korea
- Minjae Yoo (03/2021–)
- Seok Bin Son (03/2022–)
- Jae Pyoung Kim (03/2023–)

■ Intel Corporation (Santa Clara, California, USA), Graduate Interns

- Minseok Choi, Ph.D. in EE from KAIST (02/2016–07/2016), now with Kyung Hee University, Yongin, Korea
- Hidekazu Shimodaira, Ph.D. in EEE from Tokyo Institute of Technology (07/2015–12/2015), now with NTT DOCOMO, Tokyo, 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

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 Conference Tutorials and Special Session Talks

- IEEE ICUFN 2022 Tutorial (Barcelona, Spain, 07/2022), A Paradigm Shift in Future Networks with Quantum Deep Learning
- IEEE ICOIN 2022 Tutorial (Online, 01/2022), Advanced Deep Learning Methods for Autonomous Mobility
- IEEE ICUFN 2021 Tutorial (Jeju, Korea, 08/2021), Distributed and Split Deep Learning: Theory and Applications
- IEEE ICAIIC 2021 Tutorial (Online, 04/2021), Multi-Agent Deep Reinforcement Learning for Connected and Autonomous Vehicles
- IEEE ICTC 2019 Special Session Talk (Jeju, Korea, 10/2019), Advanced Deep Learning Methods and Their Applications to Distributed and Network Platforms
- IEEE ICOIN 2019 Tutorial (Kuala Lumpur, Malaysia, 01/2019), Distributed Platform Research for Emerging Deep Learning Applications
- IEEE ICC 2018 Tutorial (Kansas City, MO, USA, 05/2018), Securing the Internet of Things: A Machine Learning Approach (Making Machine Learning Practical), Joint Presentation wih Prof. Aziz Mohaisen (University of Central Florida, Orlando, FL, USA)

■ Korean (Local) Conference Tutorials and Special Session Talks

- 2022 KIPS Fall Conference Tutorial (Chuncheon, 11/2022), Quantum Deep Learning Basics
- 2022 Korea A.I. Conference Tutorial (Jeju, 09/2022), Trends in Deep Reinforcement Learning
- 2022 KICS Summer Conference Tutorial (Jeju, 06/2022), Quantum Multi-Agent Deep Reinforcement Learning
- 2022 KIEES Winner Conference Tutorial (Online, 02/2022), Deep Learning Theory and Implementation
- 2021 Korea A.I. Conference Tutorial (Jeju, 09/2021), Understanding the Potential Risks of Sharing Elevation Information on Fitness Applications
- 2021 JCCI Mobile Machine Learning Special Session (Online, 04/2021), Multi-Agent Deep Reinforcement Learning for Autonomous Vehicles
- 2020 Korea A.I. Conference Tutorial (Jeju, 12/2020), Randomized Adversarial Imitation Learning for Autonomous Driving
- 2020 KICS Fall Conference Tutorial (Seoul, 11/2020), Trends in Multi-Agent Deep Reinforcement Learning for Distributed Computing
- 2020 KICS Summer Conference Tutorial (Jeju, 08/2020), Deep Learning Computation for Economic Theory and Its Applications
- 2020 KICS Winter Conference Tutorial (Kangwon, 02/2020), Deep Learning Applications to Computer Networking
- 2020 KICS Winter Conference Tutorial (Kangwon, 02/2020), Deep Neural Network Basics
- 2019 KICS Fall Conference Special Session Talk (Seoul, 11/2019), AI Methods for Network and Mobility Platform
- 2019 IEEK Hyundai Motors Special Session (Jeju, 06/2019), Explainable AI (XAI) and Imitation Learning for Automotive Applications
- 2019 KIPS Spring Conference Tutorial (Seoul, 05/2019), Deep Learning Basics and Representative Models
- 2019 KICS Winter Conference Tutorial (Kangwon, 01/2019), Deep Learning Methods for Advanced Network
- 2017 KICS Summer Conference Tutorial (Jeju, 06/2017), GPU Computing Platforms and Software for Deep Learning
- 2017 KCC Summer Conference Special Session (Jeju, 06/2017), Dynamic Control and Software for Next-Generation Distributed Platforms
- 2017 KICS Winter Conference Tutorial (Kangwon, 01/2017), Machine Learning Techniques for Mobile Computing

■ 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> Korea Meteorological Administration (Seoul), SK Telecom (SKT) (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 Memory Business (Hwasung)

■ Exhibition/Demonstration at Conferences and Public R&D Events

- Quantum Multi-Agent Reinforcement Learning via Variational Quantum Circuit Design; IEEE ICDCS 2022 (Bologna, Italy, 07/2022)
- Visualization of Deep Reinforcement Autonomous Aerial Mobility Learning Simulations; IEEE INFOCOM 2021 (Online, 05/2021)
- Deep Multi-modal Unsupervised Pen Pressure Stylization; IEEE/CVF ICCV 2019 (Seoul, Korea, 11/2019)
- Light-Weight Programming Language for Blockchain; ACM MobiSys 2019 (Seoul, Korea, 06/2019)
- Mobile Edge mmWave Backhaul and Access; Mobile World Congress (MWC) 2016 (Barcelona, Spain, 02/2016)
- mmWave MAA Client Access & Backhaul Platform; Intel 360 degree 2016 (Anaheim, CA, 02/2016)
- mmWave MAA Client Access & Backhaul Platform; IEEE GLOBECOM 2015 (Industry Demonstration ID-14) (San Diego, CA, 12/2015)
- mmWave Modular Antenna Array Client Access & Backhaul Platform; Intel Asia Innovation Summit 2015 (Taipei, Taiwan, 10/2015)
- Enabling 5G Densification; 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)
- mmWave Modular Antenna Array for Next-Generation Wireless Networks; IEEE GLOBECOM 2014 (Expo) (Austin, TX, USA, 12/2014)
- Adaptive Video Streaming for Device-to-Device Mobile Platforms; ACM MobiCom 2013 (Miami, FL, USA, 10/2013)

Conference Activities and Services

■ Organizing Committee (OC) Activities

- IEEE WiOpt: 2022 (Organizer, Caching, Computing and Delivery in Wireless Networks Workshop (CCDWN))
- IEEE GLOBECOM: 2015 (Organizer, Workshop on Millimeter-Wave Backhaul and Access (mmWave))
- IEEE ICC: 2022 (Patronage Chair)
- IEEE ICTC: 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: 2022 (Workshop Chair), 2021 (Workshop Chair), 2021 (Workshop Organizing Chair, Artificial Intelligence Emerging Applications (AIEA) Workshop)
- IEEE ICAIIC: 2019 (Publication Chair)
- IEEE VTS APWCS: 2022 (Finance Chair), 2021 (Finance Co-Chair), 2017 (Publication Vice Chair)
- IEEE ICOIN: 2023 (Workshop Co-Chair), 2023 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2022 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2021 (Workshop Organizing Chair, Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility), 2020 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility)

- IEEE ICASSP: 2018 (Special Session Organizing Chair, Special Session on Cybersecurity and Privacy)
- IEEE APCC: 2022 (Local Arrangement Chair)
- IEEE ICEIC: 2021 (Local Arrangement Chair)
- ACM CoNEXT: 2019 (Poster Session Chair)

■ Technical Program Committee (TPC) Chair-Level Activities

- CCNC: 2022 (Track Chair for T7 (Security, Privacy and Content Protection))
- ICTC: 2022 (TPC Vice Chair for Administration)
- ICAIIC: 2023 (TPC Co-Chair), 2022 (TPC Co-Chair), 2021 (TPC Co-Chair), 2020 (TPC Co-Chair), 2019 (TPC Co-Chair)
- ICOIN: 2021 (TPC Vice Chair), 2020 (TPC Vice Chair), 2019 (TPC Vice Chair), 2018 (TPC Vice Chair)
- NAS: 2019 (Track Co-Chair for Network Track)
- GLOBECOM: 2015 (TPC Chair for the Workshop on Millimeter-Wave Backhaul and Access)

■ Technical Program Committee (TPC) Non-Chair-Level Activities

- 2023: ICC (Wireless Communications Symposium), ICC (Integrated Sensing and Communication Track), ICC (Reconfigurable Intelligent Surfaces and Smart Environments Track), WCNC, ICOIN, IE
- 2022: GLOBECOM (Selected Areas in Communications Machine Learning for Communications), MASS, ICC (Wireless Communications Symposium), WCNC, VTC-Fall, COMNETSAT, ICAIIC, ICTC, ICUFN, ICOIN, IPDPS (Heterogeneity in Computing Workshop), ICCC, WCSP, CyberneticsCom, ICEIC, MSN (Track 3: Security, Privacy, Trust, and Blockchain), ICNGC
- 2021: GLOBECOM (Selected Areas in Communications Machine Learning for Communications), GLOBECOM (IoTSN), ICC (Wireless Communications Symposium), ICCCN, MSN, COMNETSAT, ICTC, ICTC (Workshop on Intelligent 6G Communication Systems), ICTC (Workshop on KU-AIER (Korea University, A.I. Engineering Research)), WCNC, ICCC, IGESSC, ICAIIC, ICUFN, ICOIN, MASS, EuCAP, ICEIC, ICNGC, ITC-CSCC
- 2020: GLOBECOM (Ad-hoc and Sensor Networks Symposium), ICTC, WCNC, WCNC (Workshop on Aerial Communications in 5G and Beyond Networks), IGESSC, ICUFN, ICOIN, Blockchain, ICCC, COMNETSAT
- 2019: ICTC, ICCC, IGESSC, ICUFN, VTC-Spring, ICDCS (Distributed Green Computing & Energy Management), NAS (Network Track), Blockchain, MobiHoc, EuCAP, IE, WISA, SecureComm, ICPADS (Security & Dependable Computing)
- 2018: ICTC, IGESSC, ICUFN, WCSP, APWCS, ICOIN, AsiaCCS (Workshop on Security in Cloud Computing), SigTelCom, ATC, IE
- 2017: ICUFN, ICTC, IE
- 2016: ICUFN, VTC-Spring
- 2015: VTC-Spring, EuCAP
- 2014: VTC-Fall
- 2012: MASS (Workshop on Internet of Things Technology and Architectures)

References

- Prof. Andreas F. Molisch (Fellow of the IEEE), Ph.D. Research and Dissertation Advisor
 - Solomon Golomb Andrew and Erna Viterbi Chair at the University of Southern California (Los Angeles, California, USA)
 - Professor of Electrical and Computer Engineering at the University of Southern California (Los Angeles, California, USA)
 - URL: https://wides.usc.edu/founder.html