Joongheon Kim

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Highlights

Research Milestones

- 97 Journals (among them, 71 IEEE Journals), https://sites.google.com/view/aimlab-kuee/publications/journals 85 Published, 7 Under-Revision, and 5 Under-Review Journals
- 8 Top-Tier Networks/Systems/Multimedia Conferences, i.e., ICDCS (2023, review), INFOCOM (2023, review), ICDCS (2022), INFOCOM (2022), ICDCS (2020), ICDCS (2018), MM (2017), MobiSys (2010)
- 4 Top-Tier AI/Learning Conferences, i.e., ICDE (2023, review), AAAI (2023, review), CIKM (2022), IJCAI (2019)
- 5168+ Citations (H-index: 34+, i10-index 123+), obtained from Google Scholar Profile (as of September 24, 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)
- **62+ 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): 5,468,384 USD $\approx 5,468,384,000$ 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*)
- 6 Best Teaching Awards at Korea University, i.e.,
 - 3 awards are for top 5% (Granite Tower Best Teaching Award) and 3 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), School of Electrical Engineering
 - Adjunct Professor (03/2023–Present), Department of Communications Engineering (with Samsung Electronics)
 - Adjunct Professor (03/2021–02/2023), Department of Semiconductor Engineering (with SK Hynix)
 - Assistant Professor (09/2019–02/2021), School of Electrical Engineering
 - 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
- 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%) – 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, 5,468,384 USD \approx 5,468,384,000 KRW)

Industry-Funded Projects

- 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]
- 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; Primary-PI]

Research Trends in Digital Twin Applications to Autonomous Driving The block of the Act o	03/2022-04/2022
Funded by <i>Hyundai NGV</i> [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 [Grant: \$12,000; Primary-PI] • Visual Recognition Software Implementation using Deep Learning Tools	05/2019–11/2019
Funded by <i>Hyundai NGV</i> and <i>Hyundai/Kia Motors Company</i> [Grant: \$59,500; Primary-PI] • A Priori Techniques Research for Efficient Multi-Edge Computing	06/2017–12/2017
Funded by Samsung Electronics Software Center [Grant: \$80,000; Co-PI]	00/ 2017—12/ 2017
University/Center-Level Projects	
 Intelligent 6G Wireless Access System Research Center Funded by Institute for ICT Promotion (IITP) [2021-0-00467, Grant: \$154,000 (2 yrs); Co-PI] Nano UAV Intelligence Systems Research Lab (NUiSRL) – ADD Military Special Research Center Funded by Agency for Defense Development (ADD) [UD200027ED, Grant: \$130,000; Co-PI], PI: Kwangwoor 5G/Unmanned Vehicle Research Center (5G/UV-RC) – ITRC Funded by Institute for ICT Promotion (IITP) [2020-0-01637, Grant: \$55,709; Co-PI], PI: Hanyang Universit 	06/2020-12/2022
 Human Resource Development for the Biomedical Unstructured Big Data Analysis – ITRC Funded by Institute for ICT Promotion (IITP) [2018-0-01833; Co-PI], PI: Seoul National University Hospita Intelligent Internet of Energy (IoE) Data Research Center – ITRC Funded by Institute for ICT Promotion (IITP) [2018-0-01396; Co-PI], PI: Kookmin University (Korea) 	08/2018-12/2021
Government-Funded Projects	
• AI Bots Collaborative Platform and Self-Organizing Artificial Intelligence Technology Development Funded by <i>Institute for ICT Promotion (IITP)</i> [xxx, Grant: \$950,000; Co-PI]	04/2022-12/2026
• 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
K-Starlink: Dynamic Reconfigurable and Intelligent Space-Terrestrial Networks	06/2021-05/2024
Funded by National Research Foundation of Korea (Basic Research Lab) [2021R1A4A1030775, Grant: \$161,	
 Development of Integrated Development Framework that supports Automatic Neural Network Geno Deployment optimized for Runtime Environment 	
 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: \$230,000; Co-PI] 	eration and 04/2021–12/2023
 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: \$230,000; Co-PI] Integrated Perception Technology Developments for Public Safety Platforms Funded by National Research Foundation of Korea [2019M3E3A1084054, Grant: \$400,000; Co-PI] 	eration and 04/2021–12/2023 06/2019–05/2023
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• 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 Funded by *Electronics and Telecommunications Research Institute* [Grant: \$44,000; Co-PI]

10/2019–11/2019

04/2018-10/2018

Measurement and Analysis of Multi-Task GPU Scheduling Delays
 (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]

• 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]

(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
 (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)

Improving Massive Deep Learning Training via Computation and Communication Acceleration

• 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

- 5168+ Citations (H-index: 34+, i10-index 123+), obtained from Google Scholar Profile (as of September 24, 2022)
- Totally, <u>97</u> journals, https://sites.google.com/view/aimlab-kuee/publications/journals
 <u>45</u> publications are in IEEE Magazines and ComSoc/VTS Journals, among <u>71</u> IEEE publications
- 11 top-conference and 3 honored/awarded papers, i.e., INFOCOM (2023, review), ICDE (2023, review), AAAI (2023, review), CIKM (2022), ICTC (2022, Best Paper Award), ICML Workshop (2022, Spotlight), ICDCS (2022), ICOIN (2021, Best Paper Award), INFOCOM (2022), ICDCS (2020), IJCAI (2019), ICDCS (2018), MM (2017), MobiSys (2010)
- 12 IEEE ComSoc/VTS representative conference publications (i.e., GLOBECOM/ICC/VTC)
- 149 IEEE/ACM conferences, https://sites.google.com/view/aimlab-kuee/publications/conferences

Dissertation, Books, and Book Chapters

■ Ph.D. Dissertation

• <u>J. Kim</u>, 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

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

■ Book Translation (from English to Korean)

• J. Choi, <u>J. Kim</u>, 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)
- <u>J. Kim</u>, "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)
- J. Kim, 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)

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

- [JCN.review] S. Park, C. Park, S. Jung, M. Choi, and J. Kim, "Age-of-Information Aware Contents Caching and Distribution for Connected Vehicles," IEEE/KICS Journal of Communications and Networks, (01-Sep-2022).
- [TMC.review] S. Jung, J.-H. Kim, M. Levorato, and J. Kim, "Adaptive and Additive Extra Resource Allocation for Cooperative Awareness Message Broadcasting in Cellular-V2X Networks," IEEE Transactions on Mobile Computing, (29-Jan-2022).
- [INFOCOM'23] W.J. Yun, J.P. Kim, H. Baek, S. Jung, J. Park, M. Bennis, and J. Kim, (Review), IEEE Conference on Computer Communications, May 2023.
 - [TON.major] W.J. Yun, Y. Kwak, H. Baek, S. Jung, M. Ji, M. Bennis, J. Park, and J. Kim, "SlimFL: Federated Learning with Superposition Coding over Slimmable Neural Networks," IEEE/ACM Transactions on Networking, (Under 1st Revision (Major) due on 01-Oct-2022).
 - [TWC.major] B. Lim, W.J. Yun, J. Kim, and Y.-C. Ko, "Joint User Clustering and Beamforming using Cross-Entropy based Machine Learning for mmWave-NOMA with Imperfect SIC," IEEE Transactions on Wireless Communications, (Review after 1st Revision (Major) since 08-Aug-2022).
 - [TMC.major] U. Meteriz, N.F. Yildiran, J. Kim, and D. Mohaisen, "Learning Location from Shared Elevation Profiles in Fitness Apps: A Privacy Perspective," IEEE Transactions on Mobile Computing, (Review after 1st Revision since 20-Jun-2022).
 - [JCN.accept] H. Lee, S. Kwon, S. Jung, and J. Kim, "Neural Myerson Auction for Truthful and Energy-Efficient Autonomous Aerial Data Delivery," IEEE/KICS Journal of Communications and Networks, v(n):ppp-ppp, Month Year.
 - [JCN.accept] W.J. Yun, M. Shin, S. Jung, S. Kwon, and J. Kim, "Parallelized and Randomized Adversarial Imitation Learning for Safety-Critical Self-Driving Vehicles," **IEEE/KICS Journal of Communications and Networks**, v(n):ppp–ppp, Month Year.
 - [ICTC'22] J.-H. Lee, D.P. Selvam, A.F. Molisch, and <u>J. Kim</u>, "Reinforcement Learning Empowered Massive IoT Access in LEO-based Non-Terrestrial Networks," *IEEE ICTC*, October 2022., (*Best Paper Award*)
 - [WiOpt'22] M. Choi, W.J. Yun, and <u>J. Kim</u>, "Cooperative Video Quality Adaptation for Delay-Sensitive Dynamic Streaming using Adaptive Super-Resolution," *IEEE WiOpt Workshop on Caching, Computing and Delivery in Wireless Networks*, September 2022.
 - [TVT'22.07] B. Lim, W.J. Yun, J. Kim, and Y.-C. Ko, "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, July 2022.
 - [ISJ'22.06] N.-N. Dao, T. Phan, U. Sa'ad, J. Kim, T. Bauschert, D.-T. Do, and S. Cho, "Securing Heterogeneous IoT with Intelligent DDoS Attack Behavior Learning," IEEE Systems Journal, 16(2):1974–1983, June 2022., (IEEE Systems Council, Representative Journal)
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- [VTC'22-Spring] R. Lee, H. Lee, S. Park, and <u>J. Kim</u>, "Adaptive and Stabilized Streaming for Edge-Assisted Connected Vehicles under Heterogeneous Computing Constraints," *IEEE VTC*, June 2022.
- [VTC'22-Spring] J.-H. Lee, H. Seo, J. Park, M. Bennis, <u>J. Kim</u>, and Y.-C. Ko, "Random Access Protocol Learning in LEO Satellite Networks via Reinforcement Learning," *IEEE VTC Workshop on Data Driven Optimization for 6G Wireless Networks*, June 2022., (*Invited Paper*)
- [INFOCOM'22] H. Baek, W.J. Yun, Y. Kwak, S. Jung, M. Ji, M. Bennis, J. Park, and J. Kim, "Joint Superposition Coding and Training for Federated Learning over Multi-Width Neural Networks," IEEE Conference on Computer Communications, May 2022.
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 - [TVT'22.05] K. Kim, J.-H. Lee, S. Jung, J. Kim, and J.-H. Kim, "Stabilized Detection Accuracy Maximization using Adaptive SAR Image Processing in LEO Networks," IEEE Transactions on Vehicular Technology, 71(5):5661–5665, May 2022.
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- Distributed Learning Over Wireless Networks: Principles and Applications," **Proceedings of the IEEE**, 109(5):796–819, May 2021.
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- [ICDCS'20] Ü. Meteriz, N.F. Yildiran, J. Kim, and D. Mohaisen, "Understanding the Potential Risks of Sharing Elevation Information on Fitness Applications," IEEE International Conference on Distributed Computing Systems, November 2020.
- [IOT]'20.10] D. Kwon, J. Jeon, S. Park, J. Kim, and S. Cho, "Multiagent DDPG-Based Deep Learning for Smart Ocean Federated Learning IoT Networks," IEEE Internet of Things Journal, 7(10):9895–9903, October 2020.
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 - [IOTJ.review] W.J. Yun, J.P. Kim, S. Jung, J.-H. Kim, and J. Kim, "Quantum Multi-Agent Actor-Critic Neural Networks for Internet-Connected Multi-Robot Coordination in Smart Factory Management," IEEE Internet of Things Journal, (13-Jul-2022).

- [ICDE'23] H. Baek, W.J. Yun, and J. Kim, "Variational Quantum and Quanvolutional Neural Network for 3D Point Cloud Classification," IEEE International Conference on Data Engineering, April 2023.
- [AAAI'23] W.J. Yun, J. Park, and J. Kim, (Review), AAAI Conference on Artificial Intelligence, February 2023.
- [ICML'22] W.J. Yun, J.P. Kim, S. Jung, J. Park, M. Bennis, and <u>J. Kim</u>, "Slimmable Quantum Federated Learning," *ICML Workshop on Dynamic Neural Networks*, July 2022., (Spotlight, Oral Presentation)
- [ICDCS'22] W.J. Yun, Y. Kwak, J.P. Kim, H. Cho, S. Jung, J. Park, and J. Kim, "Quantum Multi-Agent Reinforcement Learning via Variational Quantum Circuit Design," IEEE International Conference on Distributed Computing Systems, July 2022.

■ Machine Learning, Informatics, and Learning Platforms

- [TITS.minor] W.J. Yun, S. Park, J. Kim, and D. Mohaisen, "Self-Configurable Stabilized Real-Time Detection Learning for Autonomous Driving Applications," IEEE Transactions on Intelligent Transportation Systems, (Under 3rd Revision (Minor) since 23-Sep-2022)., (IEEE Intelligent Transportation Systems Society, Representative Journal)
- [TNNLS.accept] W.J. Yun, M. Shin, D. Mohaisen, K. Lee, and J. Kim, "Hierarchical Deep Reinforcement Learning-based Propofol Infusion Assistant Framework in Anesthesia," IEEE Transactions on Neural Networks and Learning Systems, v(n):ppp-ppp, Month Year., (IEEE Computational Intelligence Society, Representative Journal)
 - [CIKM'22] W.J. Yun, D. Mohaisen, S. Jung, J.-K. Kim, and <u>J. Kim</u>, "Hierarchical Reinforcement Learning using Gaussian Random Trajectory Generation in Autonomous Furniture Assembly," ACM Conference on Information and Knowledge Management, October 2022.
 - [TII'22.10] W.J. Yun, S. Park, J. Kim, M. Shin, S. Jung, D. Mohaisen, and J.-H. Kim, "Cooperative Multi-Agent Deep Reinforcement Learning for Reliable Surveillance via Autonomous Multi-UAV Control," IEEE Transactions on Industrial Informatics, 18(10):7086–7096, October 2022., (IEEE Industrial Electronics Society, Representative Journal)
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 - [ICML'21] H.Baek, W.J. Yun, S. Jung, M. Ji, J. Kim, J. Park, and M. Bennis, "Communication and Energy Efficient Slimmable Federated Learning via Superposition Coding and Successive Decoding," ICML Workshop on Federated Learning for User Privacy and Data Confidentiality, July 2021.
 - [ISJ'21.03] D. Kim, D. Kwon, L. Park, J. Kim, and S. Cho, "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, March 2021., (IEEE Systems Council, Representative Journal)
 - [ICML'20] M. Shin, C. Hwang, J. Kim, J. Park, M. Bennis, and S.-L. Kim, "XOR Mixup: Privacy-Preserving Data Augmentation for One-Shot Federated Learning," ICML Workshop on Federated Learning for User Privacy and Data Confidentiality, July 2020.
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 - [IJCAI'19] M. Shin and J. Kim, "Randomized Adversarial Imitation Learning for Autonomous Driving," International Joint Conference on Artificial Intelligence, August 2019.
 - [TIE'19.02] L. Park, S. Jeong, J. Kim, and S. Cho, "Joint Geometric Unsupervised Learning and Truthful Auction for Local Energy Market," IEEE Transactions on Industrial Electronics, 66(2):1499–1508, February 2019., (IEEE Industrial Electronics Society, Representative Journal)
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 - [MobiSys'18] M. Shin, J. Kim, A. Mohaisen, J.Park, and K.H. Lee, "Neural Network Syntax Analyzer for Embedded Standardized Deep Learning," ACM MobiSys Workshop on Embedded and Mobile Deep Learning, June 2018.
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 - [TII'15.12] J. Kim, "Energy-Efficient Dynamic Packet Downloading for Medical IoT Platforms," IEEE Transactions on Industrial Informatics, 11(6):1653–1659, December 2015., (IEEE Industrial Electronics Society, Representative Journal)
 - [TSMC'15.11] J. Kim and W. Lee, "Stochastic Decision Making for Adaptive Crowdsourcing in Medical Big-Data Platforms," IEEE Transactions on Systems, Man, and Cybernetics: Systems, 45(11):1471–1476, November 2015., (IEEE Systems, Man, and Cybernetics Society, Representative Journal)

Patents (Granted), totally, 62

- 21 US Patents: (US 10637154), (US 9973364), (US 9887755), (US 9786985), (US 9167562), (US 8842640), (US 8738068), (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)
- 17 Korean Patents: (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, 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

■ 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))
- 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), Seongnam, 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)

Conference Activities and Services

■ Organizing Committee (OC) Activities

- WiOpt: 2022 (Organizer, Caching, Computing and Delivery in Wireless Networks Workshop (CCDWN))
- GLOBECOM: 2015 (Organizer, Workshop on Millimeter-Wave Backhaul and Access (mmWave))
- ICC: 2022 (Patronage Chair)
- 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)
- ICUFN: 2022 (Workshop Chair), 2021 (Workshop Chair), 2021 (Workshop Organizing Chair, Artificial Intelligence Emerging Applications (AIEA) Workshop)
- ICAIIC: 2019 (Publication Chair)
- APWCS: 2022 (Finance Chair), 2021 (Finance Co-Chair), 2017 (Publication Vice Chair)
- 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 on Artificial Intelligence and Mobility), 2020 (Workshop Organizing Chair, Workshop on Artificial Intelligence and Mobility)
- ICASSP: 2018 (Special Session Organizing Chair, Special Session on Cybersecurity and Privacy)
- APCC: 2022 (Local Arrangement Chair)
- ICEIC: 2021 (Local Arrangement Chair)
- 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