Associate Professor, Korea University – School of Electrical Engineering, Seoul, Republic of Korea

• Email: joongheon@korea.ac.kr • WWW: https://joongheon.github.io

Highlights

Research Milestones

- 61 IEEE Journals (published and accepted),
 The Complete Journals List (totally, 106) is as follows, https://joongheon.github.io/publications-journals.html
- 9 Top-Tier Conference Papers, i.e., NeurIPS (review), ACM CIKM (review), IEEE ICDCS (2022), IEEE INFOCOM (2022), IEEE ICDCS (2020), IJCAI (2019), IEEE ICDCS (2018), ACM Multimedia (2017), and ACM MobiSys (2010)
- 4636+ Citations in Google Scholar Profile (H-index: 31+, i10-index 105+)
- 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%)
- 6 Awards from IEEE Conferences and Contests, i.e., 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)
- 5 Tutorials at IEEE Conferences, i.e., 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
- 16 Awards from Local (Korean) Conferences and Contests
- 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)

- Supervised 3 Postdoctoral Scholars, tenure-track professors at Kyung Hee University (Korea) and Hallym University (Korea); and a postdoctoral scholar at the University of Southern California (USA, jointly advised by Prof. Andreas F. Molisch)
- Supervised 1 Ph.D. and 5 M.S. Students, researchers at LG Electronics, Hyundai, Naver, government agency, and startup
- 6 Best Teaching Awards at Korea University, 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 for 17+ years
- Distinguished Lecturer, IEEE Communications Society (ComSoc) (class of 2022–2023)

IEEE ComSoc

• **Associate Editor (2020–)**, *IEEE Transactions on Vehicular Technology*

- IEEE VTS
- 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

- 21+ Organizing Committee (OC) Contributions for IEEE Conferences
- 57+ Technical Program Committee (TPC) 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 Communication 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)
- 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

• Blue Baikal, Singapore

Advisor (01/2020–), Advisor in Technologies (Deep Learning & Information Security)

• 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

Visiting Positions

- California State University, Long Beach College of Engineering, Long Beach, CA, USA *Visiting Scholar* (01/2020), Department of Electrical Engineering (Host: Prof. Sean Kwon)
- University of California, Irvine Donald Bren School of Information and Computer Sciences, Irvine, CA, 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
 - 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 (03/2021), ICT Express (S.I. on Mobile and Edge Computing Systems)
- KICS (Korean Institute of Communications and Information Sciences)
 - Life Member (2018-)
 - Vice Executive Director (2021, 2022), International Conference 1 Division (IEEE ICTC)
 - *Vice Executive Director* (2022), International Conference 3 Division (IEEE APCC)
 - Vice Executive Director (2021), Intelligence Technology 2 Division
 - Director (2020), Intelligence Technology 2 Division
 - Director (2018, 2019), Intelligence Technology Division
 - Director (2017), ICT Convergence Division
 - Board Member (01/2019-), KICS Technical Committee on Coding and Information Theory
 - Board Member (01/2019-), KICS Technical Committee on Military Communication
 - Board Member (06/2018-), KICS Technical Committee on Spectrum Sharing
 - Board Member (01/2017-), KICS Technical Committee on Mobile Communications
 - Board Member (01/2017-), KICS Technical Committee on Communication Networking
 - Editor, The Journal of Korean Institute of Communications and Information Sciences
 - Guest Editor (09/2019), KICS Information and Communications Magazine (S.I. on AI and Deep Learning)
 - JCCI (Joint Conference on Communication and Information) Organizing Committee: General Affair Chair (2022), Publication Chair (2021), Publication Chair (2018)

• KIISE (Korean Institute of Information Scientists and Engineers)

- Vice President (2022), Information Network Society
- General Affair Manager (2021), Information Network Society
- General Affair Manager in Academia (2020), Information Network Society
- Member, Information Network Society
- Editor, Journal of KIISE (Area: Information Network)

• IEIE (Institute of Electronics and Information Engineers)

- General Affair Manager (2022), Telecommunication Society
- Co-Director (2021)
- Editor, Journal of the Institute of Electronics and Information Engineers (Area: Telecommunication)
- OSIA (Open Standards and ICT Association)
 - Vice President (2022), Vice President (2021), General Affair Manager (2020)

Awards and Honors

Research and Academic Excellence (International)

- Distinguished Lecturer (class of 2022–2023) IEEE Communications Society
- 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 KICS Winter Conference (with Y. Kim, Y.K. Lee, S. Jung)
- ICT Express Best Reviewer Award (2021) ICT Express (Elsevier) (Awarded to S. Park)
- 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 ≈ 5,468,384,000 KRW)

• 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

O3/2022–04/2022

Funded by *Hyundai NGV* [Grant: \$1,000; Primary-PI]

• Distributed Learning System Design and Implementation for Clinical Applications

02/2022–03/2022

Funded by *Cipherome* [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]

Poor Learning Algorithms for mVOC Concentration Analysis

03/2020 06/202

• Deep Learning Algorithms for mVOC Concentration Analysis

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]

06/2017-12/2017

• A Priori Techniques Research for Efficient Multi-Edge Computing Funded by Samsung Electronics Software Center [Grant: \$80,000; Co-PI]

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* 10/2020–12/2022 Funded by *Agency for Defense Development (ADD)* [UD200027ED, Grant: \$130,000; Co-PI], PI: Kwangwoon University (Korea)

• 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 University (Korea)

• Human Resource Development for the Biomedical Unstructured Big Data Analysis – *ITRC* 08/2018–12/2021 Funded by *Institute for ICT Promotion (IITP)* [2018-0-01833; Co-PI], PI: Seoul National University Hospital (Korea)

• Intelligent Internet of Energy (IoE) Data Research Center – ITRC 02/2020–05/2020 Funded by Institute for ICT Promotion (IITP) [2018-0-01396; Co-PI], PI: Kookmin University (Korea)

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]

• 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: \$161,000 (2 yrs); Co-PI]

Punded by National Research Foundation of Rorea (Basic Research Lab) [2021R1A4A1030775, Grant: \$161,000 (2 yrs); Co-PI]
 Development of Integrated Development Framework that supports Automatic Neural Network Generation and 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]

• Development of Quantum Deep Reinforcement Learning Algorithm using QAOA

Funded by Ministry of Science and ICT [2019M3E4A1080391, Grant: \$503,250; Primary-PI]

• mmWave Radar and Deep Reinforcement Learning based Optimal Policy Autonomous Driving
Funded by National Research Foundation of Korea [2019R1A2C4070663, Grant: \$275,000; Primary-PI]

• Development of Privacy-Reinforcing Distributed Transfer-Iterative Learning Algorithm

07/2019–12/2021

Funded by Ministry of Health and Welfare [HI19C0842, Grant: \$150,000; Co-PI]

• Virtual Presence in Moving Objects through 5G (PriMO-5G)

Funded by Institute for ICT Promotion (IITP) [2018-0-00170, Grant: \$246,464; Co-PI]

• Distributed Secure Platform for Scalable Clinical OMOP CDM Models
Funded by Ministry of Health and Welfare [HI19C0572, Grant: \$90,000; Co-PI]

• 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: \$150,000; Co-PI]

 mmWave High-Speed Networking Platform Design for Next-Generation Convergence Services 06/2016-05/2019 Funded by National Research Foundation of Korea [2016R1C1B1015406, Grant: \$150,000; Primary-PI] - 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 12/2021-11/2022 Funded by Agency for Defense Development (ADD) [xxx, Grant: \$100,000; Primary-PI] Research on Intelligent Agent-based CPS Security and Reliability 05/2021-11/2021 Funded by *Telecommunications Technology Association (TTA)* [Grant: \$48,000; Primary-PI] • 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 05/2017-04/2019 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] 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]

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

Parsing Techniques for Artificial Neural Network (ANN) Data Processing

• 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)

(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]

09/2017-11/2017

• 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

- Citation: 4636+, H-Index: 31+, i10-Index: 105+; obtained from Google Scholar Profile (as of May 11, 2022)
- The Complete Journals List (totally, 106) is as follows, https://joongheon.github.io/publications-journals.html

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

Top-Tier Conferences and Journals/Magazines

■ Top-Tier and Awarded Conference and Workshop Papers

- [Review'22] W.J. Yun, J. Park, and J. Kim, NeurIPS (2022)
- [Review'22] W.J. Yun, D. Mohaisen, S. Jung, J.-K. Kim, and J. Kim, ACM CIKM (2022)
- [ICDCS'22] W.J. Yun, Y. Kwak, J.P. Kim, H. Cho, S. Jung, J. Park, and <u>J. Kim</u>, "Quantum Multi-Agent Reinforcement Learning via Variational Quantum Circuit Design," IEEE ICDCS (2022)
- [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 INFOCOM (2022)
 - [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 (2021) Workshop on Federated Learning for User Privacy and Data Confidentiality (https://arxiv.org/abs/2112.03267)
 - [ICOIN'21] 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 (2021) (Best Paper Award)
 - [ICDCS'20] Ü. Meteriz, N.F. Yildiran, J. Kim, and D. Mohaisen, "Understanding the Potential Risks of Sharing Elevation Information on Fitness Applications," IEEE ICDCS (2020)
 - [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 (2020) Workshop on Federated Learning for User Privacy and Data Confidentiality (https://arxiv.org/abs/2006.05148)
 - [IJCAI'19] M. Shin and J. Kim, "Randomized Adversarial Imitation Learning for Autonomous Driving," IJCAI (2019)
 - [ICDCS'18] S. Ahn, J. Kim, E. Lim, W. Choi, A. Mohaisen, and S. Kang, "ShmCaffe: A Distributed Deep Learning Platform with Shared Memory Buffer for HPC Architecture," IEEE ICDCS (2018)
 - [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 (2018) Workshop on Embedded and Mobile Deep Learning**
 - [MM'17] J. Koo, J. Yi, J. Kim, M.A. Hoque, and S. Choi, "REQUEST: Seamless Dynamic Adaptive Streaming over HTTP for Multi-Homed Smartphone under Resource Constraints," **ACM Multimedia (2017)**
 - [SOSP'15] S. Yoo, Y. Kim, S. Lee, S.-A. Lee, and <u>J. Kim</u>, "A Case for Bad big.LITTLE Switching: How to Scale Power-Performance in SI-HMP," **ACM SOSP (2015) Workshop on Power-Aware Computing and Systems**
 - [MobiSys'10] J. Paek, <u>J. Kim</u>, and R. Govindan, "Energy-Efficient Rate-Adaptive GPS-based Positioning for Smartphones," **ACM MobiSys (2010)** (*Citations: 613*+)

■ IEEE Journals and Magazines, 66 publications

◄ Revision ▶

- [TMBMC.review] <u>J. Kim</u>, W.J. Yun, and S. Jung, "Quantum Deep Learning for Max-Weight Scheduling in Molecular Communications," *IEEE Transactions on Molecular, Biological, and Multi-Scale Communications*, (Review, 05-May-2022).
 - [TMC.major] U. Meteriz, N.F. Yildiran, <u>J. Kim</u>, and D. Mohaisen, "Learning Location from Shared Elevation Profiles in Fitness Apps: A Privacy Perspective," *IEEE Transactions on Mobile Computing*, (1st Revision, 21-Jun-2021).
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 - [TON'16.08] <u>I. Kim</u>, G. Caire, and A.F. Molisch, "Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery," *IEEE/ACM Transactions on Networking*, 24(4):2319–2331, August 2016., (Best Reading Papers in Device-to-Device Communications by IEEE Communications Society), (Citations: 130+)

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 - [CL'14.09] S.-N. Hong and J. Kim, "Joint Coding and Stochastic Data Transmission for Uplink Cloud Radio Access Networks," *IEEE Communications Letters*, 18(9):1619–1622, September 2014.
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Research Paper Award (2018) - LG Electronics CTO Office, Multimedia Research Laboratory), (Citations: 113+)

- [TCE'07.05] <u>J. Kim</u>, W. Lee, E. Kim, D.-W. Kim, and H. Kim, "Coverage-Time Optimized Dynamic Clustering of Networked Sensors for Pervasive Home Networking," *IEEE Transactions on Consumer Electronics*, 53(2):433–441, May 2007.
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Patents (Granted), totally 62

- 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)
- 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 and Research Supervision

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
- 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 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 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), jointly with University of Southern California (co-advised by Prof. Andreas F. Molisch) (Ph.D. Advisor: Prof. Jaekyun Moon at Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea) Currently, Assistant Professor at Kyung Hee University, Suwon, Korea
- Dr. Soyi Jung (03/2021–08/2021), jointly with University of California at Irvine (co-advised by Prof. Marco Levorato) (Ph.D. Advisor: Prof. Jae-Hyun Kim at Ajou University, Suwon, Korea) Currently, Assistant Professor at Hallym University, Chuncheon, Korea

• Dr. Ju-Hyung Lee (08/2021–), jointly with University of Southern California (co-advised by Prof. Andreas F. Molisch) (Ph.D. Advisor: Prof. Young-Chai Ko at Korea University, Seoul, Korea)

■ Ph.D. Course Students and Alumni

- Soohyun Park (03/2019–02/2024 (expected))
- Haemin Lee (09/2020–02/2025 (expected))
- Won Joon Yun (03/2021–08/2024 (expected))
- Hyunsoo Lee (03/2021–)
- Hankyul Baek (03/2021-)
- Seok Bin Son (03/2022–)
- Jae Pyoung 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, Suwon, Korea
- Laihyuk Park (Advisor: Prof. Sungrae Cho at CAU), Professor at Seoul National University of Science and Technology, Seoul, Korea
- Shinyoung Ahn (Advisor: Prof. Sungwon Kang at KAIST), Researcher at ETRI, Daejeon, Korea
- Jonghoe Koo (Advisor: Prof. Sunghyun Choi at SNU), Researcher at Samsung Research, 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 Hallym University, Chuncheon, Korea
- Joo Yong Shim (Advisor: Prof. Jong-Kook Kim at Korea University)

■ M.S. Course Students and Alumni

- Kyeongseon Kim (09/2017–08/2019), Researcher at LG Electronics AI Research, Seoul, 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 (03/2021–02/2023)

■ 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, Suwon, 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

Professional Activities

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 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)

■ Invited Talks at World-Wide Universities and Research Institutes

• Spatio-Temporal Slit Learning for Privacy-Preserving OCR Applications

Huawei Research Center (Text-Aware Image Understanding Workshop) (Online, 11/2021)

• AI/ML Technologies in Beyond 5G/6G

Ericsson-LG (R&D Hackathon / AI Learning Challenge – Keynote Speech) (Seoul, Korea, 05/2021)

• XOR Mixup: Privacy-Preserving Data Augmentation for One-Shot Federated Learning

Huawei Research Center (Deep Learning/Machine Learning for Computer Vision) (Online, 09/2020)

• Deep Reinforcement Learning Research and Its Applications to Networks

Huawei Research Center (Fundamental and Applied Problems of Machine Learning) (Nizhny Novgorod, Russia, 12/2019)

Enabling Delay-Sensitive Robust Distributed Blockchain Mining via Econometric Methods

City University of Hong Kong (Hong Kong, 11/2018), Hosted by Prof. Cong Wang

• Frequency Sharing Study between 5G Micro-Cellular Systems and Fixed Service Systems in Millimeter-Wave Bands

Intel Communications and Devices Group (iCDG) [Cellular Modem TechTalk] (Santa Clara, CA, USA, 01/2016)

• Status of Millimeter-Wave and Device-to-Device Research

Nokia Research Center at Berkeley (Berkeley, CA, USA, 08/2014)

• Advanced Device-to-Device Video Streaming: Theory and Implementation

Qualcomm Research Center (San Diego, CA, USA, 02/2014)

■ Invited Talks at Korean Research Institutes

A.I. Technology Trends and Applications; Korea Meteorological Administration (Online, 09/2021)

- Deep Reinforcement Learning: Trends and Applications; SK Telecom (SKT) (Seoul, Korea, 06/2021)
- Trends in AI R&D for Edge/Mobile Platforms; SK Hynix (Icheon, Korea, 09/2020)
- Lyapunov Optimization and AI Applications to Mobility Platforms; Naver Labs Robotics Lab (Pankyo, Korea, 06/2020)
- Distributed AI: Trends and Issues; ETRI (Daejeon, Korea, 05/2020)
- Federated Learning and Imitation Learning; ETRI (Kwangju, Korea, 02/2020)
- Federated and Imitation Learning; KT AI Tech Center (Seoul, Korea, 12/2019)
- Adversarial Imitation Learning and Federated Learning; ETRI (Daejeon, Korea, 12/2019)
- Distributed Learning and Deep Reinforcement Learning; ETRI (Daejeon, Korea, 12/2019)
- mmWave Radar and Sensors: Theory and Applications; LG Electronics (Seoul, Korea, 11/2019)
- Advanced Topics in Machine/Deep Learning; Posco ICT (Pankyo, Korea, 11/2019)
- mmWave Communications and Radar: Theory and Applications; ETRI (Daejeon, Korea, 11/2019)
- Network Performance Enhancement via Deep Reinforcement Learning; LG U+ (Seoul, Korea, 10/2019)
- AI Seminar: Foundations and Business Cases; SK Broadband (Seoul, Korea, 10/2019)
- Deep Learning Methods for Advanced Networks; Korea Electronics Technology Institute (KETI) (Pankyo, Korea, 02/2019)
- Making Deep Neural Network Practical in Resource Constrained Computing Systems; ETRI (Daejeon, Korea, 02/2018)
- Dynamic Optimization for Reliable and Robust Deep Learning Systems; ETRI (Daejeon, Korea, 02/2018)
- Adaptive Lyapunov Control for Stabilized Learning Platforms; ETRI (Daejeon, Korea, 07/2017)
- GPU Computing Platforms and Software for Deep Learning; ETRI (Daejeon, Korea, 07/2017)
- Trends in Energy IT in Big-Data Era; Korea Electric Power Corporation (KEPCO) Research Institute (Daejeon, Korea, 05/2017)
- Stochastic Control of 60 GHz Links for Distributed Virtual Reality Network Platforms; ETRI (Daejeon, Korea, 11/2016)
- 5G Wireless Platforms: Standards and Hardware/Software Prototyping; ETRI (Daejeon, Korea, 10/2016)
- Millimeter-Wave Radio Propagation, Beam Management, Systems, and Embedded Prototyping; ETRI (Daejeon, Korea, 08/2016)
- Intel's 5G Research with Millimeter-Wave Modular Antenna Arrays; ETRI (Daejeon, Korea, 10/2014)
- Issues and Solutions for Millimeter-Wave Network Technologies; Samsung Electronics Memory Business (Hwasung, Korea, 01/2013)

■ Tutorials and Special Session Talks at Korean Research Societies

- Multi-Agent Deep Reinforcement Learning for Autonomous Vehicles; 2021 JCCI Mobile Machine Learning Special Session (Online, 04/2021)
- Trends in Multi-Agent Deep Reinforcement Learning for Distributed Computing; 2020 KICS Fall Conference Tutorial (Seoul, Korea, 11/2020)
- Deep Learning Computation for Economic Theory and Its Applications; 2020 KICS Summer Conference Tutorial (Yong Pyong, Korea, 08/2020)
- Deep Learning Applications to Computer Networking; 2020 KICS Winter Conference Tutorial (Yong Pyong, Korea, 02/2020)
- Deep Neural Network Basics; 2020 KICS Winter Conference Tutorial (Yong Pyong, Korea, 02/2020)
- Artificial Intelligence Methods for Networks; 2019 KICS Fall Conference Special Session Talk (Seoul, Korea, 11/2019)
- Explainable AI (XAI) and Imitation Learning for Automotive Applications; 2019 IEEK Hyundai Motors Special Session (Jeju, Korea, 06/2019)
- Deep Learning Basics and Representative Models; 2019 KIPS Spring Conference Tutorial (Seoul, Korea, 05/2019)
- Deep Learning Methods for Advanced Network; 2019 KICS Winter Conference Tutorial (Yong Pyong, Korea, 01/2019)
- GPU Computing Platforms and Software for Deep Learning; 2017 KICS Summer Conference Tutorial (Jeju, Korea, 06/2017)
- Dynamic Control and Software for Next-Generation Distributed Platforms; 2017 KCC Special Session on New Research (Jeju, Korea, 06/2017)
- Machine Learning Techniques for Mobile Computing; 2017 KICS Winter Conference Tutorial (Jungsun, Korea, 01/2017)

■ 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)

References

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 - 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)
 - $-\,URL: \verb|https://wides.usc.edu/founder.html|$