

Hyun-Ho Choi 최현호 · 崔賢鎬

Professor, Ph.D.

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EDUCATION

2007.02	Ph.D., Electrical Engineering and Computer Science <i>Korea Advanced Institute of Science and Technology (KAIST)</i> Dissertation: <i>Seamless Vertical Handover Schemes Based on Pre-registration and Pre-authentication in Heterogeneous Wireless Networks</i> Advisor: Prof. Dong-Ho Cho · Graduated <i>summa cum laude</i>	Daejeon, Korea
2003.02	M.S., Electrical Engineering and Computer Science <i>Korea Advanced Institute of Science and Technology (KAIST)</i> Thesis: <i>Fast Access Scheme Based on Channel Monitoring/Assignment for IMT-2000 Satellite Communication System</i> Advisor: Prof. Dong-Ho Cho · Graduated <i>summa cum laude</i>	Daejeon, Korea
2001.02	B.S., Electrical Engineering and Computer Science <i>Korea Advanced Institute of Science and Technology (KAIST)</i> Graduated <i>cum laude</i>	Daejeon, Korea

ACADEMIC AND PROFESSIONAL APPOINTMENTS

2020.04 – Present	Professor <i>School of ICT, Robotics & Mechanical Engineering, Hankyong National University</i> Major of ICT and Robotics Engineering	Anseong, Korea
2024.03 – 2025.02	Visiting Scholar <i>University of Calgary</i>	Calgary, Canada
2021.02 – Present	Founder & CEO, HK Lab Inc. <i>Faculty start-up of Hankyong National University</i>	Anseong, Korea
2017.03 – 2018.02	Visiting Scholar <i>University of California, Irvine</i>	Irvine, CA, USA
2015.04 – 2020.03	Associate Professor <i>Department of Electrical, Electronic and Control Engineering, Hankyong National University</i>	Anseong, Korea
2011.03 – 2015.03	Assistant Professor <i>Department of Electrical, Electronic and Control Engineering, Hankyong National University</i>	Anseong, Korea
2008.08 – 2008.11	Visiting Scholar <i>Stanford University</i>	Stanford, CA, USA
2007.02 – 2011.02	Senior Research Engineer <i>Communication Lab., Samsung Advanced Institute of Technology (SAIT)</i>	Yongin, Korea

2006.01 – 2006.02

Visiting Researcher
TeleCIS Wireless Inc.

California, USA

UNIVERSITY ADMINISTRATIVE POSITIONS

2026.03 – Present

Director, Computing Center
Hankyong National University
전산원장

Anseong, Korea

2019.03 – 2021.02

Associate Dean of Academic Affairs
Hankyong National University
교무부처장

Anseong, Korea

2013.03 – 2015.02

Vice Director, Innovation Center for Engineering Education
Hankyong National University
공학교육혁신센터 부센터장

Anseong, Korea

RESEARCH INTERESTS

- **Communications and networks for physical AI:** semantic multiple access, Transformer-based multi-agent receivers, and real-time semantic video transmission on a USRP testbed
- **Communication–computing co-design:** cooperative inference, mobile edge computing, and real-time computer vision services
- Machine learning and deep reinforcement learning for wireless communications and networks
- Wireless powered communications and energy harvesting; UAV and LEO satellite communications
- Random access and MAC protocol design; optimization theory and bio-inspired algorithms
- **AI vision and AIoT systems:** vision inspection, object and pose recognition, AIoT platforms, AI agents, and edge devices

PUBLICATION SUMMARY

International journal papers	105	International conference papers	41
IEEE journals and magazines	60	Domestic journal papers	54
First or corresponding author	92	Domestic conference papers	25
Published since 2021	36	Book chapter	1
U.S. patents (registered)	47	Korean patents (registered / applied)	37 / 6

 **Google Scholar** (Oct. 2026)

Citations

h-index

i10-index

All

3,029

30

89

Since 2021

1,111

19

31

SELECTED PUBLICATIONS (2024–2026)

Representative five journal papers of the last three years; [J#] refers to the full list.

*: corresponding author.

[S1] Ki-Ho Lee, **Hyun-Ho Choi***, and Jung-Ryun Lee*, “Transformer-Based Shared Embedding for Scalable Multiple Access in Semantic Communications,” *IEEE Journal on Selected Areas in Communications*, vol. 44, pp. 2622–2637, Feb. 2026. [IF 16.8, Top 1.2%] [J7]

- [S2] **Hyun-Ho Choi**, Kangsoo Kim, Ki-Ho Lee*, and Kisong Lee*, “Cooperative Inference for Real-Time 3D Human Pose Estimation in Multi-Device Edge Networks,” *IEEE Transactions on Communications*, vol. 73, no. 12, pp. 14624–14638, Dec. 2025. [IF 8.4, Top 9.6%] [J8]
- [S3] Chaeyeon Kim, **Hyun-Ho Choi***, and Kisong Lee*, “Joint Optimization of Trajectory and Resource Allocation for Multi-UAV-Enabled Wireless-Powered Communication Networks,” *IEEE Transactions on Communications*, vol. 72, no. 9, pp. 5752–5764, Sep. 2024. [IF 8.3, Top 7.2%] [J13]
- [S4] **Hyun-Ho Choi** and Kisong Lee*, “Joint Optimization of Confidence Thresholds and Resource Allocation for Cooperative Inference in Mobile Edge Computing Systems,” *IEEE Transactions on Vehicular Technology*, vol. 75, no. 6, pp. 11663–11676, Jun. 2026. [IF 7.5, Top 11.2%] [J5]
- [S5] **Hyun-Ho Choi**, Ki-Ho Lee*, and Kisong Lee*, “Optimal Confidence Thresholds for Cooperative Inference in Intelligent Surveillance Systems,” *IEEE Internet of Things Journal*, vol. 12, no. 20, pp. 42953–42964, Oct. 2025. [IF 8.7, Top 5.8%] [J10]

HONORS AND AWARDS

2014–2024	Hankyong Academic Award (6 times: 2014, 2016, 2017, 2021, 2022, 2024) <i>Hankyong National University</i>
2023.10	Excellent Paper Award (2 papers), KIICE Autumn Conference 2023 <i>Korea Institute of Information and Communication Engineering</i>
2023.09	Best Paper Award , 4th Korea Artificial Intelligence Conference 2023
2020.08	Excellent Paper Award, KICS Summer Conference 2020 <i>Korean Institute of Communications and Information Sciences</i>
2020.07	Excellent Paper Award, KIICE Spring Conference 2020 <i>Korea Institute of Information and Communication Engineering</i>
2019.11	Excellent Paper Award, KICS Fall Conference 2019 <i>Korean Institute of Communications and Information Sciences</i>
2018	Excellent Paper Award, Journal of KICS <i>Korean Institute of Communications and Information Sciences</i>
2016.07	Best Paper Award , 12th EAI International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine 2016) <i>European Alliance for Innovation</i>
2014.02	Best Paper Award , IARIA International Conference on Networks (ICN 2014) <i>International Academy, Research, and Industry Association</i>
2012.07	Excellent Paper Award, International Conference on Ubiquitous and Future Networks (ICUFN 2012)
2010.11	Paper Award (Gold, co-author), Samsung Conference 2010
2010.01	Patent Award (Bronze) <i>Samsung Advanced Institute of Technology</i>
2001.02	Graduated with Honors (<i>cum laude</i>) <i>KAIST</i>

RESEARCH GRANTS

Ongoing

- 2026.10 – 2027.02 Development of Auto Inline Test System Software
(주)CMinsight (contract to HK Lab Inc.) PI
- 2026.10 – 2026.12 Prototype Edge Gateway for Multi-Camera Semantic Video Transmission in Construction-Site Safety Monitoring Based on AI Multi-User Semantic Communication Patents
Seoul BRIDGE Practical-Use Development Support Program, Chung-Ang University Anchor Project Group (HK Lab Inc. as development partner) Participant
- 2026.08 – 2027.02 AI Semantic Communication Research Service
Chung-Ang University Industry-Academic Cooperation Foundation (contract to HK Lab Inc.) PI
- 2026.03 – 2029.02 Communication-Computing Resource Optimization and Cooperative Inference Protocols for Real-Time Computer Vision Services
National Research Foundation of Korea (NRF), Core Research (Type A) PI

Completed

- 2022.03 – 2025.02 A Study on Energy-Efficient Communication Protocol in 6G Vertical Mobile Communication Environments
National Research Foundation of Korea (NRF), Mid-Career Researcher Program PI
- 2022.03 – 2023.02 An Optimal Multi-hop Transmission Scheme for Wireless Powered Communication Networks
Hankyong National University PI
- 2022.04 – 2022.11 Development of System-Level Simulator for Low-Energy Drone Identification in Dense Drone-Distributed Environments
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2022.03 – 2022.11 Machine Learning-Based Energy-Efficiency Optimization in 5G NR-Based Small Cell Cluster Environments
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2019.06 – 2022.02 Network Structure and Communication Protocol for Energy-Neutral Operations of Wireless Networks
National Research Foundation of Korea (NRF), Mid-Career Researcher Program PI
- 2021.04 – 2021.11 Development of System-Level Simulator for Low-Energy Drone Identification
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2021.03 – 2021.10 Energy-Saving Algorithm with AI-Based Handover Techniques in Dense 5G Small Cell Clusters
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2020.06 – 2020.11 Optimization Algorithm for Energy Saving in 5G NR-Based Small Cell Clusters
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2020.03 – 2020.11 System Performance Comparison of ALOHA Protocols According to Drone Distribution
Electronics and Telecommunications Research Institute (ETRI) Participant
- 2019.06 – 2019.11 Group Scheduling Method for Efficient Identification in Drone Swarm Environments
Electronics and Telecommunications Research Institute (ETRI) Participant

2017.05 – 2019.02	Development of Open 5G Standard Model <i>Giga KOREA Project, Ministry of Science and ICT (MSIT)</i>	Participant
2016.06 – 2019.05	Energy-Efficient Communication and Networking Protocols Based on Natural Swarm Intelligence for Internet of Everything <i>National Research Foundation of Korea (NRF), Young Researcher Program</i>	PI
2013.04 – 2018.03	Development of Device Collaborative Giga-Level Smart Cloudlet Technology <i>Korea Communications Commission (KCC)</i>	Participant
2011.07 – 2017.06	Energy-Efficient Machine-to-Machine Communication and Networking Technologies for Logistics Center Management <i>Gyeonggi Regional Research Center (GRRC)</i>	Participant
2011.09 – 2016.08	Energy-Efficient Communication Protocol Considering Network Delay Variation in Next-Generation Heterogeneous Wireless Networks <i>National Research Foundation of Korea (NRF), General Researcher Program</i>	PI
2014.04 – 2016.04	Radio Resource Management and Routing Protocols Based on Bio-Inspired Algorithms in Tactical Mobile Ad Hoc Networks <i>Agency for Defense Development (ADD)</i>	Participant
2014.07 – 2015.01	Research on Service Scenarios for 5G Wireless Cellular Networks <i>Electronics and Telecommunications Research Institute (ETRI)</i>	Participant
2012.06 – 2013.01	Analysis on Services and Requirements for Proximate Internet <i>Electronics and Telecommunications Research Institute (ETRI)</i>	Participant
2012.04 – 2013.01	Development of Distributed MAC and Radio Resource Management for Autonomous Networks <i>Korea Communications Commission (KCC)</i>	Participant
2011.06 – 2011.12	Research on Core Technology in 4G+ Wireless Environments <i>Korea Telecom (KT)</i>	PI
2011.03 – 2012.02	Distributed Resource Management for Large-Scale Networks <i>Hankyong National University</i>	PI

INDUSTRY COLLABORATION (HK LAB INC.)

2026.05	FPC AI vision inspection and component tracking system <i>with 삼기(주) and (주)CMinsight</i>
2026.05	AIoT environmental monitoring system for poultry farms <i>with DIT and (주)CMinsight</i>
2026.05	Seven patent applications on vision inspection, dimension measurement, smart glasses, environmental monitoring, and semantic communications
2026.04	MOU on smart factory and quality inspection <i>(주)CMinsight</i>
2025.04	AI vision inspection system and AI vision dimension inspection system <i>예선테크(주)</i>
2024.08	Immersive robot remote-control system <i>이루온(주)</i>
2022.03	Joint development of an AI CCTV platform <i>브이터치(주)</i>

2021.05 AI deep-learning training data construction
스마트랩스(주)

TECHNOLOGY TRANSFER

2022.08 Patent transfer of Korean Patent No. 10-1764531, “Method and System for Image Processing and Data Transmission in Network-Based Multi-Camera Environment”
Hankyong National University Industry-Academic Cooperation Foundation to (주)마크인

TEACHING

Current	Big Data Analysis; Probability and Statistics; Engineering Mathematics; Data Communications; Object-Oriented Programming; Elementary Design of Engineering; Creative Convergence Capstone Design; ICT, Robotics and Mechanical Engineering-Converged Capstone Design
Previous	Mathematics for Electrical and Electronic Engineering; Introduction to Wireless Communications; Network Programming; Industrial Big Data Analysis and Factory Optimization; Advanced Engineering Design; Capstone Design Project; USN Design and Practice; Introduction to ICT-Based Robotic and Mechanical Engineering

PROFESSIONAL SERVICE

Editorial Activities

- Associate Editor, *Springer Wireless Personal Communications*
- Associate Editor, *KIISE Journal of Computing Science and Engineering (JCSE)*
- Editorial Board Member, *MDPI IoT*
- Editorial Board Member, *KIICE Journal of Information and Communication Convergence Engineering (JICCE)*
- Editor, *Hindawi Mobile Information Systems*
- Guest Editor, Special Issue on “Self-Organization in Mobile Networking Systems,” *Hindawi Mobile Information Systems*, 2016
- Editorial Board Member, *International Journal of Computer & Software Engineering*

Technical Program Committees and Reviews

- TPC Member: IEEE COMNETSAT, ICTC, APCC, JCCI, ICUFN, ATC, NICS, ICoICT, APMediaCast, APWiMob, ICCEREC, SigTelCom, IWIV, ComManTel, I4CT, ISWTA, and others
- Reviewer: IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, IEEE/ACM Transactions on Mobile Computing, IEEE Communications Letters, and many IEEE flagship conferences

PROFESSIONAL MEMBERSHIPS

- IEEE Senior Member (Student Member 2002, Member 2007, Senior Member 2019); IEEE Communications Society
- Lifetime Member, Korean Institute of Communications and Information Sciences (KICS), since 2012
- Lifetime Member, Korea Institute of Information and Communication Engineering (KIICE), since 2012

- Member, Institute of Electronics, Information and Communication Engineers (IEICE), since 2011
- Member, Korea Institute of Intelligent Transport Systems (KITS), 2012

Publication List

*: corresponding author

INTERNATIONAL JOURNAL PAPERS — 105

- [J1] Ki-Ho Lee, **Hyun-Ho Choi***, and Jung-Ryun Lee*, “Contrastive Embedding Multiplexing for Multi-User Semantic Communication Systems,” *IEEE Signal Processing Letters*, vol. 33, pp. 3806–3810, Sep. 2026. [IF 3.6, Top 39.1%]
- [J2] Ki-Ho Lee, **Hyun-Ho Choi***, and Jung-Ryun Lee*, “Context-Aware Embedding Masking Based on Reinforcement Learning for Semantic Multiplexing,” *IEEE Wireless Communications Letters*, vol. 15, pp. 4459–4463, Aug. 2026. [IF 5.1, Top 24.7%]
- [J3] Chaeyeon Kim, **Hyun-Ho Choi***, and Kisong Lee*, “Joint Beam Placement and Power Optimization for Broadcast and Multicast Services in Multi-Beam LEO Satellite Systems,” *IEEE Transactions on Vehicular Technology*, Jul. 2026. [IF 7.5, Top 11.2%]
- [J4] Ki-Ho Lee, **Hyun-Ho Choi**, and Jung-Ryun Lee*, “Attention-Driven Interference Alignment for Multi-User Semantic Communications,” *IEEE Transactions on Vehicular Technology*, vol. 75, no. 6, pp. 11843–11848, Jun. 2026. [IF 7.5, Top 11.2%]
- [J5] **Hyun-Ho Choi** and Kisong Lee*, “Joint Optimization of Confidence Thresholds and Resource Allocation for Cooperative Inference in Mobile Edge Computing Systems,” *IEEE Transactions on Vehicular Technology*, vol. 75, no. 6, pp. 11663–11676, Jun. 2026. [IF 7.5, Top 11.2%]
- [J6] Kisong Lee and **Hyun-Ho Choi***, “Energy-Efficient Cooperative Inference in Multi-Device Edge Networks: A Lyapunov-Based Approach,” *IEEE Internet of Things Journal*, vol. 13, no. 8, pp. 16895–16909, Apr. 2026. [IF 8.7, Top 5.8%]
- [J7] Ki-Ho Lee, **Hyun-Ho Choi***, and Jung-Ryun Lee*, “Transformer-Based Shared Embedding for Scalable Multiple Access in Semantic Communications,” *IEEE Journal on Selected Areas in Communications*, vol. 44, pp. 2622–2637, Feb. 2026. [IF 16.8, Top 1.2%]
- [J8] **Hyun-Ho Choi**, Kangsoo Kim, Ki-Ho Lee*, and Kisong Lee*, “Cooperative Inference for Real-Time 3D Human Pose Estimation in Multi-Device Edge Networks,” *IEEE Transactions on Communications*, vol. 73, no. 12, pp. 14624–14638, Dec. 2025. [IF 8.4, Top 9.6%]
- [J9] Ki-Ho Lee, **Hyun-Ho Choi**, and Jung-Ryun Lee*, “Attention-Driven Semantic Transmission Scheme for AI-Native Wireless Communications,” *IEEE Communications Letters*, vol. 30, pp. 287–291, Nov. 2025. [IF 4.5, Top 39%]
- [J10] **Hyun-Ho Choi**, Ki-Ho Lee*, and Kisong Lee*, “Optimal Confidence Thresholds for Cooperative Inference in Intelligent Surveillance Systems,” *IEEE Internet of Things Journal*, vol. 12, no. 20, pp. 42953–42964, Oct. 2025. [IF 8.7, Top 5.8%]
- [J11] Chaeyeon Kim, **Hyun-Ho Choi***, and Kisong Lee*, “Interference Coordination for Multi-UAV-Enabled Communications under Probabilistic LoS Channels,” *IEEE Internet of Things Journal*, vol. 12, no. 19, pp. 40484–40498, Oct. 2025. [IF 8.7, Top 5.8%]
- [J12] Kanghyun Heo, **Hyun-Ho Choi***, and Kisong Lee*, “Joint Trajectory and Resource Optimization for UAV-Assisted SWIPT Systems: A Comparative Study of Linear and Nonlinear Energy Harvesting Models,” *IEEE Internet of Things Journal*, vol. 11, no. 24, pp. 40293–40305, Dec. 2024. [IF 8.9, Top 4.1%]
- [J13] Chaeyeon Kim, **Hyun-Ho Choi***, and Kisong Lee*, “Joint Optimization of Trajectory and Resource Allocation for Multi-UAV-Enabled Wireless-Powered Communication Networks,” *IEEE Transactions on Communications*, vol. 72, no. 9, pp. 5752–5764, Sep. 2024. [IF 8.3, Top 7.2%]
- [J14] **Hyun-Ho Choi**, Kyu-Min Kang, and Howon Lee*, “NOMA-based ALOHA Protocol for Air-to-Ground Communications with Maximum Transmit Power Limits,” *IEEE Internet of Things Journal*, vol. 11, no. 16, pp. 27387–27397, Aug. 2024. [IF 8.9, Top 4.1%]

- [J15] Kisong Lee and **Hyun-Ho Choi***, “Energy-Efficient Resource Allocation for Bidirectional Wireless Power and Information Transfer over Interference Channels,” *Journal of Network and Computer Applications*, vol. 227, Art. no. 103887, Jul. 2024. [IF 8.0, Top 4.3%]
- [J16] **Hyun-Ho Choi**, Gitae Park, Kanghyun Heo, and Kisong Lee*, “Joint Optimization of Beam Placement and Transmit Power for Multibeam LEO Satellite Communication Systems,” *IEEE Internet of Things Journal*, vol. 11, no. 8, pp. 14804–14813, Apr. 2024. [IF 8.9, Top 4.1%]
- [J17] **Hyun-Ho Choi** and Jung-Ryun Lee*, “Optimization of Dynamic Beam Placement for LEO Satellite Multicast Communications,” *IEEE Wireless Communications Letters*, vol. 13, no. 4, pp. 1029–1033, Apr. 2024. [IF 5.5, Top 15.3%]
- [J18] Kisong Lee, **Hyun-Ho Choi***, Woongsup Lee*, and Victor C. M. Leung, “Wireless Powered Interference Networks: Applications, Approaches, and Challenges,” *IEEE Vehicular Technology Magazine*, vol. 18, no. 4, pp. 102–110, Dec. 2023. [IF 5.9, Top 13.7%]
- [J19] Junseung Lee, **Hyun-Ho Choi***, Seung-Chan Lim, Hyungsub Kim, Jeehyeon Na, and Howon Lee*, “Low-complexity Q-learning for Energy-aware Small-cell Networks with Integrated Access and Backhaul,” *IEEE Access*, vol. 11, pp. 121529–121538, Oct. 2023. [IF 3.4, Top 34.4%]
- [J20] Kisong Lee and **Hyun-Ho Choi***, “Transmit Power Control for Secure Wireless-Powered Sensor Networks with Malicious Energy Harvester,” *IEEE Access*, vol. 11, pp. 103146–103153, Sep. 2023. [IF 3.4, Top 34.4%]
- [J21] **Hyun-Ho Choi**, Jinhyung Oh, Kyu-Min Kang, and Howon Lee*, “Idleless Slotted ALOHA Protocol for Drone Swarm Identification,” *IEEE Transactions on Vehicular Technology*, vol. 72, no. 8, pp. 11080–11085, Aug. 2023. [IF 6.1, Top 12.2%]
- [J22] Woongsup Lee, Howon Lee*, **Hyun-Ho Choi***, “Deep Learning-based Network-Wide Energy Efficiency Optimization in Ultra-Dense Small Cell Networks,” *IEEE Transactions on Vehicular Technology*, vol. 72, no. 6, pp. 8244–8249, Jun. 2023. [IF 6.1, Top 12.2%]
- [J23] **Hyun-Ho Choi** and Jung-Ryun Lee*, “Joint Optimization of Altitude and Beamwidth for UAV-Powered Wireless Sensor Networks,” *IEEE Transactions on Vehicular Technology*, vol. 72, no. 1, pp. 1279–1284, Jan. 2023. [IF 6.1, Top 12.2%]
- [J24] Howon Lee, Eunjin Kim, Hyungsub Kim, JeeHyeon Na, and **Hyun-Ho Choi***, “Multi-Agent Q-Learning Based Cell Breathing Considering SBS Collaboration for Maximizing Energy Efficiency in B5G Heterogeneous Networks,” *Elsevier ICT Express*, vol. 8, no. 4, pp. 525–529, Dec. 2022. [IF 5.4, Top 27.8%]
- [J25] Kyung-Seop Shin, **Hyun-Ho Choi***, and Howon Lee*, “Knowledge Transfer-based Multi-agent Q-learning for Medium Access in Dense Cellular Networks,” *IEEE Wireless Communications Letters*, vol. 11, no. 12, pp. 2542–2545, Dec. 2022. [IF 6.3, Top 17.6%]
- [J26] **Hyun-Ho Choi**, Hyungsub Kim, JeeHyeon Na, and Howon Lee*, “Soft Non-Orthogonal Multiple Access-based Handover for Throughput Enhancement,” *IEEE Transactions on Vehicular Technology*, vol. 71, no. 9, pp. 10197–10202, Sep. 2022. [IF 6.8, Top 14%]
- [J27] Kisong Lee, **Hyun-Ho Choi***, Woongsup Lee*, and Victor C. M. Leung, “Learning-Based Optimization of Wireless-Powered Two-Way Interference Channels With Imperfect CSI,” *IEEE Internet of Things Journal*, vol. 9, no. 9, pp. 6934–6943, May 2022. [IF 10.6, Top 2.2%]
- [J28] Kisong Lee and **Hyun-Ho Choi***, “Weighted Sum Rate Maximization for Two-Way Wireless Powered Interference Channels,” *IEEE Transactions on Vehicular Technology*, vol. 71, no. 5, pp. 5627–5632, May 2022. [IF 6.8, Top 14%]
- [J29] Eunjin Kim, **Hyun-Ho Choi***, Hyungsub Kim, JeeHyeon Na, and Howon Lee*, “Optimal Resource Allocation Considering Non-Uniform Spatial Traffic Distribution in Ultra-Dense Networks: A Multi-Agent Reinforcement Learning Approach,” *IEEE Access*, vol. 10, pp. 20455–20464, Feb. 2022. [IF 3.9, Top 36.2%]

- [J30] **Hyun-Ho Choi**, Hyungsub Kim, JeeHyeon Na, and Howon Lee*, “Non-Orthogonal Multiple Access-based Handover for Throughput Enhancement,” *IEEE Transactions on Vehicular Technology*, vol. 70, no. 11, pp. 12278–12282, Nov. 2021. [IF 6.239, Top 13.6%]
- [J31] **Hyun-Ho Choi** and Kisong Lee, “Wireless Energy Sharing for Maximizing Lifetime of Linear Multihop Communications,” *IEEE Internet of Things Journal*, vol. 8, no. 15, pp. 12189–12202, Aug. 2021. [IF 10.238, Top 5.2%]
- [J32] Woongsup Lee, Kisong Lee*, **Hyun-Ho Choi***, and Victor C. M. Leung, “Deep Learning for SWIPT: Optimization of Transmit-Harvest-Respond in Wireless-Powered Interference Channel,” *IEEE Transactions on Wireless Communications*, vol. 20, no. 8, pp. 5018–5033, Aug. 2021. [IF 8.346, Top 9.1%]
- [J33] **Hyun-Ho Choi** and Kisong Lee, “Cooperative Wireless Power Transfer for Lifetime Maximization in Wireless Multihop Networks,” *IEEE Transactions on Vehicular Technology*, vol. 70, no. 4, pp. 3984–3989, Apr. 2021. [IF 6.239, Top 13.6%]
- [J34] **Hyun-Ho Choi**, Muy Sengly, and Jung-Ryun Lee, “Geometric Analysis-Based Cluster Head Selection for Sectorized Wireless Powered Sensor Networks,” *IEEE Wireless Communications Letters*, vol. 10, no. 3, pp. 649–653, Mar. 2021. [IF 5.281, Top 20.8%]
- [J35] Kisong Lee, Junseong Bang*, and **Hyun-Ho Choi***, “Secrecy Outage Minimization for Wireless-Powered Relay Networks with Destination-Assisted Cooperative Jamming,” *IEEE Internet of Things Journal*, vol. 8, no. 3, pp. 1467–1476, Feb. 2021. [IF 10.238, Top 5.2%]
- [J36] **Hyun-Ho Choi** and Kisong Lee, “Bioinspired Cooperative Wireless Energy Transfer for Lifetime Maximization in Multihop Networks,” *IEEE Internet of Things Journal*, vol. 8, no. 3, pp. 1611–1622, Feb. 2021. [IF 10.238, Top 5.2%]
- [J37] Kisong Lee, Jun-Pyo Hong, and **Hyun-Ho Choi***, “Adaptive Jamming Power Control for Untrusted Relay Networks with Imperfect Channel Reciprocity,” *IEEE Systems Journal*, vol. 14, no. 3, pp. 4217–4220, Sep. 2020. [IF 3.931, Top 22.9%]
- [J38] Chan-Jae Lee, Dara Ron, Kisong Lee, **Hyun-Ho Choi**, and Jung-Ryun Lee, “Performance Analysis and Optimization of Downlink Transmission in LoRaWAN Class B Mode,” *IEEE Internet of Things Journal*, vol. 7, no. 8, pp. 7836–7847, Aug. 2020. [IF 9.471, Top 3.4%]
- [J39] Kisong Lee and **Hyun-Ho Choi***, “Fast Wireless Power Transfer for Multiple Receivers in Linear Topology,” *IEEE Systems Journal*, vol. 14, no. 1, pp. 649–652, Mar. 2020. [IF 3.931, Top 22.9%]
- [J40] Kisong Lee, Jung-Ryun Lee*, and **Hyun-Ho Choi***, “Learning-based Joint Optimization of Transmit Power and Harvesting Time in Wireless-Powered Networks with Co-channel Interference,” *IEEE Transactions on Vehicular Technology*, vol. 69, no. 3, pp. 3500–3504, Mar. 2020. [IF 5.978, Top 11.5%]
- [J41] Kisong Lee, Jin-Taek Lim, and **Hyun-Ho Choi**, “Impact of Outdated CSI on the Secrecy Performance of Wireless-Powered Untrusted Relay Networks,” *IEEE Transactions on Information Forensics and Security*, vol. 15, no. 1, pp. 1423–1433, Jan. 2020. [IF 7.178, Top 6.8%]
- [J42] **Hyun-Ho Choi**, Wonjae Shin, Marco Levorato, and H. Vincent Poor, “Harvest-Or-Access: Slotted ALOHA for Wireless Powered Communication Networks,” *IEEE Transactions on Vehicular Technology*, vol. 68, no. 11, pp. 11394–11398, Nov. 2019. [IF 5.379, Top 12.6%]
- [J43] **Hyun-Ho Choi** and Jung-Ryun Lee, “Energy-Neutral Operation Based on Simultaneous Wireless Information and Power Transfer for Wireless Powered Sensor Networks,” *MDPI Energies*, vol. 12, no. 20, pp. 1–17, Oct. 2019. [IF 2.702]
- [J44] Ui-Seong Yu, **Hyun-Ho Choi**, and Jung-Ryun Lee, “Kuramoto-Desync: Distributed and Fair Resource Allocation in a Wireless Network,” *IEEE Access*, vol. 7, no. 1, pp. 104769–104776, Aug. 2019. [IF 3.745, Top 22.1%]

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