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## I Educational background

- 2011-2013: Korea University, Seoul, Republic of Korea (Ph.D., Electronics and Computer Engineering)
- 2004-2006: Korea University, Seoul, Republic of Korea (M.S., Electronics and Computer Engineering)
- 1999-2004: Korea University, Seoul, Republic of Korea (B.S., Electronics and Computer Engineering)

## I Major careers

- 2020–Current: Director, Information and Computing Center, Hallym University
- 2020–Current: IEEE Senior Member
- 2016–Current: Advisory Committee, Korea Radio Promotion Association (RAPA)
- 2013–Current: Professor, Division of Software, Hallym University
- 2018–2021: Review Board (RB), National Research Foundation of Korea (NRF)
- 2019–2020: Visiting Scholar, Oregon State University – EECS, Corvallis, OR, USA
- 2009–2013: Senior Researcher, KT Corporation – Advanced Institute of Technology, Seoul, Republic of Korea,
- 2006–2009: Senior Engineer, Samsung Electronics Co., Ltd. - DMC (Digital Media & Communications) R&D Center, Suwon, Republic of Korea
- 2006–2009: Research Staff, Intel Corporation – Intel Korea R&D Center, Seoul, Republic of Korea

## ■ Publications

### [Google Scholar]

[https://scholar.google.co.kr/citations?hl=ko&user=k\\_n0KkMAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.co.kr/citations?hl=ko&user=k_n0KkMAAAAJ&view_op=list_works&sortby=pubdate)

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- S. Lee, J.-H. Kwon, X. Zhang, and E.-J. Kim, "Traffic-Adaptive CFP Extension for IEEE 802.15.4 DSME MAC in Industrial Wireless Sensor Networks," *IEEE Access*, vol. 9, pp. 94454–94469, Jan. 2021.
- D. Kim, J.-H. Kwon, and E.-J. Kim, "TSCH Multiple Slotframe Scheduling for Ensuring Timeliness in TS-SWIPT-Enabled IoT Networks," *Electronics*, vol. 10, no. 1, pp. 48:1–48:20, Dec. 2020.
- H.-H. Lee, J.-H. Kwon, and E.-J. Kim, "Design and Implementation of Virtual Private Storage Framework Using Internet of Things Local Networks," *Symmetry-Basel*, vol. 12, no. 3, pp. 489:1–489:12, Mar. 2020.
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- S. Lee, J.-H. Kwon, B. Lee, and E.-J. Kim, "Scientific Literature Information Extraction Using Text Mining Techniques for Human Health Risk Assessment of Electromagnetic Fields," *Sensors and Materials*, vol. 32, no. 1, pp. 149–157, Jan. 2020.
- Y.-S. Kim, J.-H. Kwon, Y. Lim, E.-J. Kim, D. Kim, and Y.S. Kim, "Hybrid Medium Access Control for Time-Switching Simultaneous Wireless Information and Power Transfer," *Sensors and Materials*, vol. 31, no. 11, pp. 3549–3558, 2019.
- C. Jyothi, J. Park, and E.-J. Kim, "Optimization of Ferroelectric Phase in Poly(vinylidene fluoride co-hexafluoropropylene) under Different Annealing Conditions," *Sensors and Materials*, vol. 31, no. 7, pp. 2323–2331, 2019.
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- J.-H. Kwon and E.-J. Kim, "Lifetime Extension Strategy for IEEE 802.15.4 DSME-based Wireless Powered Sensor Networks," *IEEE I&CPS ASIA* 2024.
- S.-B. Lee, J.-H. Kwon, and E.-J. Kim, "Q-learning-based Traffic-aware Parent Selection for Wireless Powered Sensor Networks," *ICAIIIC* 2024.
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- J.-H. Kwon, J. Park, and E.-J. Kim, "Q-Learning-based Access Priority Control in Internet of Medical Things," *ICONI* 2023.
- J.-H. Kwon, D. Kim, and E.-J. Kim, "Reinforcement Learning-based Contention Window Adjustment for Wireless Body Area Networks," *IBDAP* 2023.
- J.-H. Kwon, D. Kim, Y. Lim, Y.-S. Kim, and E.-J. Kim, "Secure Data Acquisition Using Blockchain-Based Decentralized Identifier in Internet of Medical Things," *2nd ICIoTC* 2023.
- J.-H. Kwon, S.-B. Lee, and E.-J. Kim, "Electroencephalography-based Fatigue Assessment for Internet of Medical Things System," *APIC-IST* 2023.
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- J.-H. Kwon, S.-W. Lee, and E.-J. Kim, "Dynamic Frame Length Adaptation for Anti-Collision Management in Wi-Fi Backscatter System," PlatCon 2019