

Jeongjun Park

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RESEARCH INTERESTS

Communication: 5G/6G/IoT

- Communication protocol design;
- Systems or computer structures design;
- Implementation of network functions and performance improvement;

AI

- Radar sensing based human activity recognition;
- Domain fusion considering characteristics of features;
- Improvement of machine learning algorithms

CAREER INTEREST

Research and Development: 5G/6G communication, IoT, AI, open dataset

CURRENT RESEARCH ISSUES

5G & 6G communication

PHY SW development, symbol processing, signal quality management & optimization **IR-UWB radar sensing & AI**

Real-world experiments, human activity recognition, driver activity recognition, open dataset, benchmark, machine learning, domain fusion

EDUCATION

Seoul National University, Seoul, Republic of Korea

Ph. D in Department of Electrical and Computer Engineering,

Sep. 2020 to Feb. 2025

- Advisor: **Professor Saewoong Bahk**

Seoul National University, Seoul, Republic of Korea

M.S. in Department of Electrical and Computer Engineering,

Mar. 2018 to Aug. 2020

- Advisor: **Professor Saewoong Bahk**

Hankuk University of Foreign Studies, Yongin-si, Republic of Korea

B.S. in Department of Information Communications Engineering, February 2018

EXPERIENCE

Military Service in Korean Army,

Dec. 2012 – Sep. 2014.

National Science & Technology Scholarship,

Mar. 2016 – Feb. 2018.

Teaching Experience

Department of Electrical and Computer Engineering, Seoul National University

- 420.469, Design of Network Protocols with Experiments, Seoul National University, Fall 2018.
- 420.469, Design of Network Protocols with Experiments, Seoul National University, Fall 2019.
- 430.525A 001, Data Network, Seoul National University, Spring 2021.
- ns-3 Intensive Course Lecturer, Feb. 2021.

Leadership Experience

Ubiquitous Network Laboratory

- IoT Team Leader, Jan. 2022 – Dec. 2022.

RESEARCH PROJECT

Center Officer, **Research on Ultra Reliable Aerial Network framework Supporting High-density Urban Air Mobility**, supported by the MSIT(Ministry of Science and ICT), Korea, under the ITRC(Information Technology Research Center) support program, supervised by the IITP(Institute of Information & Communications Technology Planning & Evaluation), Mar. 2023 – Feb. 2024.

Participating Researcher, **Bio-Mimetic Robot Research center**, supported by a grant to Bio-Mimetic Robot Research Center Funded by Defense Acquisition Program Administration, and by Agency for Defense Development (UD130070ID). Feb. 2021 – Dec. 2021

Participating Researcher, **Augmented Cognition Meta-Communications Research Center**, supported by the National Research Foundation of Korea(NRF) grant funded by the Korea government (MSIT) (No. 2022R1A5A1027646). Jun. 2022 – Feb. 2024

PUBLICATIONS

Publications for International Journal

- [1] Jin Mo Yang, Sunwook Hwang, Jeongjun Park, and Saewoong Bahk **FrameBoost: Advanced Video Analytics with Inference Trigger Frame Selection via Tracking Error Estimation**, *IEEE Access*, 2025.
- [2] Jeongjun Park and Saewoong Bahk, **Resizing Method for Applying RF-based Data to ViT in Human Activity Recognition**, *IEEE JKICS*, May 2025.
- [3] Jeongjun Park, Hongchan Kim, Hyung-sin Kim, and Saewoong Bahk, **DualBlock: Adaptive Intra-Slot CSMA/CA for TSCH**, *IEEE Access*, Vol. 10, pp. 68819-68833 Jun. 2022.

Publications for Domestic Conference

- [4] Jeongjun Park, Jimin Park, and Saewoong Bahk, **UWB Two-Way Ranging Based Feature Extraction for Human Activity Recognition**, *JCCI* Apr. 2023.
- [5] Jeongjun Park, Hongchan Kim, and Saewoong Bahk, **Random Back-Off in Timeslot for Mitigating Collisions of TSCH Networks**, *Conference of the Korea Institute of Military Science and Technology*, 2020.
- [6] Jeongjun Park, Hongchan Kim, and Saewoong Bahk, **RSSI-based Link Quality Estimation in Low-power and Lossy Networks**, *KICS Winter* Jan. 2019.

HARDWARE AND SOFTWARE SKILLS **Computer Programming:**
• Python, C, C++, JAVA, MATLAB

Desktop Editing and Productivity Software:
• Git, Visual Studio Code, VIM, LATEX

Implementation Tools (Hardware):
• Arduino, Android Studio, Contiki OS, Zhepyr

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Human Resources Development Service of Korea
Date of Issue: Apr. 16, 2017

REFERENCES *Github Profile* - <https://jeongjun-park.github.io/>
LinkedIn - <https://www.linkedin.com/in/jeongjunpark/>
Google Scholar - https://scholar.google.co.kr/citations?view_op=list_works&hl=ko&user=74z9OHIAAAAJ