Kyoungjun Park

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST) — *03.2017 – 02.2019*
School of Computing / M.S. degree
Wireless mobile INternet and Service LAB (WINS LAB)
Advisor: Myungchul Kim

Chung-Ang University — *03.2013 – 02.2017*
Computer Science Engineering / B.S. degree (Summa Cum Laude)
Total GPA of 4.36 / 4.5
Ultra-Intelligent Computing/Communication LAB (UC LAB)
Advisor: Sungrae Cho

RESEARCH INTERESTS

Machine learning & Reinforcement learning, Multimedia, Human-computer interaction, and Mobile and ubiquitous systems

EMPLOYMENT

TmaxData Co., Ltd. — *02.2019 -*
Data Analysis Research Engineer

AWARDS & HONORS

Best Research Award at Tmax — *01.2020*
1st place among research engineers at the Tmax company

Outstanding Thesis Award at KAIST's School of Computing — *02.2019*
For a Master's thesis titled "Environment-Aware Video Streaming Optimization of Power Consumption"

The DLive Scholarship — *01.2019*
$3K support for presentation of international conference (IEEE INFOCOM)

Qualcomm-KAIST Innovation Awards — *09.2018*
$5K award

Chung-Ang University Scholarship — *03.2013 – 02.2017*
Merit-based scholarships for 7 semesters

PUBLICATIONS

EVSO: Environment-aware Video Streaming Optimization of Power Consumption.
Kyoungjun Park, Myungchul Kim.
INFOCOM 2019: IEEE International Conference on Computer Communications. *(acceptance ratio = 19.7%, 288/1464)*

Energy-Efficient Mobile Charging for Wireless Power Transfer in Internet of Things Networks.
Woongsoo Na, Junho Park, Cheol Lee, **Kyoungjun Park**, Joongheon Kim, Sungrae Cho.
IEEE Internet of Things Journal 2018.

ACTIVITIES

Young Engineers Honor Society (YEHS) Regular Member *11.2015 -*

- Established under the National Academy of Engineering of Korea (NAEK).
- Presenter of high school major seminar and mentor of the junior engineering classroom

2016 Qualcomm IT Tour *06.27.2016 – 07.02.2016*

- Hosted by Qualcomm.
- Listened to the sessions at the San Diego headquarters and presented to CEO Derek in a free theme.

Ubiquitous Computing Lab, Chung-Ang University *01.2015 – 06.2016*

- Research on clustering technique for Mobile Charger (MC) with wireless charging

RECENT PROJECTS

Video Streaming Optimization with Reinforcement Learning *2018.07 – Present*

- Video analysis through various observations such as network traffic, and similarity between video frames when streaming videos
- The training algorithm used A3C technique, which is the latest actor-critic method including two Neural Networks, and we used Policy Gradient Method to train the policy.

Maritime Connectivity Platform (MCP) *03.2017 – 12.2019*

- A communication framework enabling efficient electronic information exchange between all authorized maritime stakeholders across available communication systems
- Developed Maritime Messaging Service (MMS) that allows maritime stakeholders to communicate seamlessly and reliably

'Smart Class' Application *08.2015 – 12.2015*

- To help the communication with teacher, school parent, and student
- Used Flask for server & Android for client & SQLite3 for Database.

Smart Doorbell with IoT *05.2015 – 12.2015*

- Added smart functions such as remote management and access control to the existing doorbell.
- Used Raspberry pi & various sensors.