Kyoungjun Park

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EDUCATION	
Korea Advanced Institute of Science and Technology (KAIST) School of Computing / M.S. degree (Outstanding Thesis Award, 3.95 / 4.3) Advisor: Myungchul Kim	03.2017 – 02.2019
Chung-Ang University Computer Science Engineering / B.S. degree (Summa Cum Laude, 4.36 / 4.5) Advisor: Sungrae Cho	03.2013 – 02.2017

RESEARCH INTERESTS

Mobile and ubiquitous systems, Multimedia, Mobile Computing, Human-computer interaction, and Reinforcement learning.

TmaxSoft Co., Ltd.	02.2019 –
Research Engineer, Alternative Military Service	
AWARDS & HONORS	
Best Research Award at Tmax Group 1st place among the first-year research engineers at the Tmax company	01.2020
Outstanding Thesis Award at KAIST's School of Computing For a Master's thesis titled "Environment-Aware Video Streaming Optimization of Power Consumption"	02.2019
The DLive Scholarship \$3K support for the presentation of the international conference (IEEE INFOCOM)	01.2019
Qualcomm-KAIST Innovation Awards \$5K award	09.2018
Chung-Ang University Scholarship Merit-based scholarships for 7 semesters	03.2013 – 02.2017

PUBLICATIONS

(Under Review) NeuSaver: Neural Adaptive Power Consumption Optimization for Mobile Video Streaming

Kyoungjun Park, Myungchul Kim, Laihyuk Park.

IEEE Transactions on Mobile Computing (TMC) 2021.

EVSO: Environment-aware Video Streaming Optimization of Power Consumption.

Kyoungjun Park, Myungchul Kim.

IEEE International Conference on Computer Communications (INFOCOM) 2019. (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.

PATENTS	
Method and apparatus of video streaming (비디오 스트리밍 방법 및 장치) Myungchul Kim, Kyoungjun Park . South Korea, 10-2153801	09.2020 –
Method to analyze data (Application filed in the USA & KR) Kyoungjun Park, Youngkwang Lee, Saemaro Moon, Changho Hwang	
ACTIVITIES	
 Young Engineers Honor Society (YEHS) Regular Member Established under the National Academy of Engineering of Korea (NAEK). Volunteered as a high school major seminar presenter and a mentor in the middle school engineering classroom. 	11.2015 –
 2016 Qualcomm IT Tour Hosted by Qualcomm. Presented to CEO Derek at the San Diego headquarters on how to advance the technology. 	06.27.2016 – 07.02.2016
 Ubiquitous Computing Lab, Chung-Ang University Worked as an undergraduate researcher. Participated in research on efficient clustering techniques for mobile chargers with wireless charging. 	01.2015 – 06.2016
RECENT PROJECTS	
 Recommendation & Guide for Exploratory Data Analysis (EDA) in Jupyter Notebook Recommended to the user for the next analysis action and the proper parameterization of analysis actions (e.g., group-by, filter, chart type, pivot). Developed a crawling module using GitHub's API to collect and a filtering process that only selects meaningful EDA notebooks scattered on the data center. Developed a customized python debugger/interpreter that can access the function call to understand the contents of python codes and processed it into training data. → Tracked a total of 60 functions in libraries such as pandas, matplotlib, etc. Utilized various models such as RNN and regression to learn user's analysis know-how and insight. 	2021.01 –
 Analysis Recommendation with User's Preference Recommended charts/graphs that users are likely to see based on user preference and data features. Applied the deep learning model that is similar to YouTube's recommendation model. Utilized various models including ARIMA and isolation-forest to analyze data features. 	02.2019 – 2021.01
 Video Streaming Optimization with Reinforcement Learning Video analysis through various observations such as network traffic, and similarity between video frames when streaming videos The training algorithm used the A3C technique, which is the latest actor-critic method including two neural networks. 	07.2018 – 01.2021
Maritime Connectivity Platform • A communication framework enabling efficient electronic information exchange between all authorized	03.2017 –

maritime stakeholders across available communication systems

and reliably.

Developed Maritime Messaging Service that allows maritime stakeholders to communicate seamlessly

12.2018