Kyoungjun Park

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EDUCATION	
Korea Advanced Institute of Science and Technology (KAIST) School of Computing / M.S. degree (w/ the Outstanding Thesis Award) 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, Human-computer interaction, and Machine learning & Reinforcement learning.

EMPLOYMENT	
TmaxSoft Co., Ltd. Research Engineer	02.2019 –
AWARDS & HONORS	
Best Research Award at Tmax Group 1 st 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 presentation of 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). Presenter of high school major seminar and mentor of the junior engineering classroom 	11.2015 –
 2016 Qualcomm IT Tour Hosted by Qualcomm. Listened to the sessions at the San Diego headquarters and presented to CEO Derek in a free theme. 	06.27.2016 – 07.02.2016
 Ubiquitous Computing Lab, Chung-Ang University Research on clustering technique for Mobile Charger (MC) with wireless charging 	01.2015 – 06.2016
RECENT PROJECTS	
 Recommendations & Guides for Jupyter's Exploratory Data Analysis (EDA) Notebook Recommended to the user for the next analysis action and the appropriate parameterization of each analysis action (e.g., group-by, filter, chart type, pivot). Developed a crawling module using GitHub's API to collect and filter useful EDA notebooks scattered on GitHub. Developed a customized python debugger/interpreter that can access the level of function call to understand the contents of a python code and processed it into training data (Watching 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. 	2021.01 –
 Recommendations & Guides for User's Exploratory Data Analysis (EDA) Recommended charts/graphs that users want to see based on user preference and data feature. Applied the deep Learning model that YouTube used for video recommendation for user preference. 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 A3C technique, which is the latest actor-critic method including two Neural Networks, and we used Policy Gradient Method to train the policy. 	07.2018 – 01.2021
 Maritime Connectivity Platform (MCP) 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 	03.2017 – 12.2019

Developed Maritime Messaging Service (MMS) that allows maritime stakeholders to communicate

seamlessly and reliably