Haekyu Park

HOMEPAGE https://haekyu.com **EMAIL** haekyu@gatech.edu

Education

Ph.D., Computer Science Aug 2018 - Present
Georgia Institute of Technology, Atlanta, GA
Advisor: Dr. Polo Chau

B.S., Computer Science and Engineering Mar 2012 - Aug 2017
Seoul National University, Seoul, Republic of Korea
Graduated with honors (Cum Laude)

Experience

Graduate Research Assistant Aug 2018 - Present
Georgia Institute of Technology, Atlanta, GA

Undergraduate Research Assistant June 2016 - Aug 2017
Seoul National University, Seoul, Republic of Korea

Publications

Junghwan Kim, Haekyu Park, Ji-Eun Lee, and U Kang, SIDE: Representation Learning in Signed Directed Networks, The Web Conference, 2018.

Haekyu Park, Jinhong Jung, and U Kang, A Comparative Study of Matrix Factorization and Random Walk with Restart in Recommender Systems, IEEE Big Data, 2017.

Projects

Explore the history of space and interplanetary travel through a visualization of space data 2018
Keywords: Information Visualization, Scrollytelling, d3.js
`https://psy901.github.io/space-mission-project/`

Recommender System for Videos on Oksusu Application 2017
Keywords: Deep Learning, Sequence/Word Embedding, Approx. k-NN, Heterogeneous Features
SK Telecom, Seoul, Republic of Korea

A Fast Data Compression with Shared Virtual Memory in Heterogeneous System Architecture 2017
Keywords: OpenCL, GPGPU, SVM, HSA
Undergraduate thesis

Personalized Recommendation for Credit Card Rewards 2016
Keywords: Coupled Matrix Factorization, Time Series Data
Hyundai Card, Seoul, Republic of Korea

Patents

U Kang, Junghwan Kim, and Haekyu Park, "Apparatus and Method for Representation Learning in Signed Directed Networks", Korean Patent 10-2017-0130914, 2017.

Awards and Honors

National Scholarship For Science and Engineering 2015
Merit-based

Skills

Programming Languages
Python, JavaScript, HTML, R, Matlab, Java, C, C++, Ocaml, Scheme

Machine Learning
TensorFlow, Keras, Numpy, SciPy, scikit-learn, OpenCV

Data Visualization
D3.js, Matplotlib, ggplot

Parallel Computing
OpenCL