GEON LEE

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Homepage: http://geonlee0325.github.io

RESEARCH INTERESTS

Data Mining, Graph Mining, Machine Learning, Deep Learning, Social Network Analysis

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Seoul, South Korea

M.S. & Ph.D. in Artificial Intelligence

Sep. 2020 -

Advisor: Kijung Shin

Sungkyunkwan University (SKKU)

Suwon, South Korea

B.S. in Computer Science and Engineering

Mar. 2016 - Aug. 2019

GPA: 4.41/4.50; C.S.: 4.45/4.50 (Ranked 1st in the College of CSE)

WORK EXPERIENCE

NEC Labs America

Princeton, NJ, USA

Research Intern

May 2023 - Aug. 2023

Mentor: Wenchao Yu / Manager: Haifeng Chen

Amazon

San Francisco, CA, USA

Applied Scientist Intern

Sep. 2022 – Dec. 2022

Mentor: Zhonghao Luo / Manager: Tao Ye

AWARDS AND HONORS

Selected as One of the Best-Ranked Papers of ICDM 2021	Dec. 2021
Sungkyunkwan Presidential Award	Aug. 2019
Dean's List	2016 - 2019
Sungkyunkwan Software Scholarship (Full tuition scholarship)	2016 - 2019

TUTORIALS

[1] Mining of Real-World Hypergraphs: Patterns, Tools, and Generators Geon Lee, Jaemin Yoo, and Kijung Shin

WWW 2023 & ICDM 2022 & CIKM 2022

PUBLICATIONS

[1] Temporal Hypergraph Motifs Geon Lee and Kijung Shin

Knowledge and Information Systems (SCIE Journal, 2023)

[2] Set2Box: Similarity Preserving Representation Learning for Sets Geon Lee, Chanyoung Park, and Kijung Shin

ICDM 2022

[3] HashNWalk: Hash and Random Walk Based Anomaly Detection in Hyperedge Streams Geon Lee, Minyoung Choe, and Kijung Shin

IJCAI 2022

- [4] MiDaS: Representative Sampling from Real-World Hypergraphs Minyoung Choe, Jaemin Yoo, <u>Geon Lee</u>, Woonsung Baek, U Kang, and Kijung Shin **WWW 2022**
- [5] Simple Epidemic Models with Segmentation Can Be Better than Complex Ones Geon Lee, Se-eun Yoon, and Kijung Shin

PLOS ONE (SCIE Journal, 2022)

Oral presentation at epiDAMIK workshop in KDD 2021

[6] THyMe+: Temporal Hypergraph Motifs and Fast Algorithms for Exact Counting Geon Lee and Kijung Shin

ICDM 2021

Selected as One of the Best-Ranked Papers of ICDM 2021

- [7] How Do Hyperedges Overlap in Real-World Hypergraphs? Patterns, Measures, and Generators Geon Lee*, Minyoung Choe*, and Kijung Shin (* equal contribution)

 WWW 2021
- [8] Hypergraph Motifs: Concepts, Algorithms, and Discoveries Geon Lee, Jihoon Ko, and Kijung Shin VLDB 2020
- [9] MEGA: Multi-View Semi-Supervised Clustering of Hypergraphs
 Joyce Jiyoung Whang, Rundong Du, Sangwon Jung, <u>Geon Lee</u>, Barry Drake, Qingqing Liu, Seonggoo Kang, and Haesun Park

VLDB 2020

[10] Hyperlink Classification via Structured Graph Embedding Geon Lee, Seonggoo Kang, and Joyce Jiyoung Whang SIGIR 2019 (Short Paper)

ACADEMIC SERVICES

Conference Reviewer

• ACM Conference on Knowledge Discovery and Data Mining (KDD) 2023

• Learning on Graphs Conference (**LoG**) 2022

Journal Reviewer

• IEEE Transactions on Knowledge and Data Engineering (TKDE) 2023

• IEEE Transactions on Neural Networks and Learning Systems (TNNLS) 2023

PROJECTS

AI-based Weather Forecast Support Development COVID-19 Task Force July 2021 – Mar. 2020 – Sep. 2020

SKILLS

Languages Korean (mother tongue), English (fluent), Japanese (fluent)

Computing Skills C, C++, Python, Matlab, Java, Android

TEACHING

Teaching Assistant

- KAIST AI506 Data Mining and Search
- KAIST AI607 Graph Mining and Social Network Analysis

Spring 2023, Spring 2021

Fall 2022, Fall 2021, Fall 2021

 \bullet SKKU CSE3036 Seminar in Computer Engineering

Fall 2019