GEON LEE

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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 May 2023 – Aug. 2023

Research Intern 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

KDD 2023 & WWW 2023 & ICDM 2022 & CIKM 2022

PUBLICATIONS

- [1] Hypercore Decomposition for Non-Fragile Hyperedges: Concepts, Algorithms, Observations, and Applications Fanchen Bu, Geon Lee, and Kijung Shin
 - Data Mining and Knowledge Discovery (SCI Journal, 2023)
- [2] Temporal Hypergraph Motifs Geon Lee and Kijung Shin

Knowledge and Information Systems (SCIE Journal, 2023)

[3] Set2Box: Similarity Preserving Representation Learning for Sets Geon Lee, Chanyoung Park, and Kijung Shin ICDM 2022

[4]	HashNWalk: Hash and Random Walk Based Anomaly Detection in Hyperedge Streams Geon Lee, Minyoung Choe, and Kijung Shin IJCAI 2022
[5]	MiDaS: Representative Sampling from Real-World Hypergraphs Minyoung Choe, Jaemin Yoo, <u>Geon Lee</u> , Woonsung Baek, U Kang, and Kijung Shin WWW 2022
[6]	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
[7]	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
[8]	How Do Hyperedges Overlap in Real-World Hypergraphs? - Patterns, Measures, and Generators Geon Lee*, Minyoung Choe*, and Kijung Shin (* equal contribution) WWW 2021
[9]	Hypergraph Motifs: Concepts, Algorithms, and Discoveries Geon Lee, Jihoon Ko, and Kijung Shin VLDB 2020

[10] MEGA: Multi-View Semi-Supervised Clustering of Hypergraphs Joyce Jiyoung Whang, Rundong Du, Sangwon Jung, Geon Lee, Barry Drake, Qingqing Liu, Seonggoo Kang, and Haesun Park

VLDB 2020

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

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CADEMIC SERVICES	
Program Committee	
• AAAI Conference on Artificial Intelligence (AAAI)	2024
\bullet Learning on Graphs Conference (LoG)	2022 - 2023
Program Committee (Tutorial Track)	
\bullet ACM International Conference on Information and Knowledge Management ($\mathbf{CIKM})$	2023
Conference Reviewer	
\bullet ACM Conference on Knowledge Discovery and Data Mining $(\mathbf{K}\mathbf{D}\mathbf{D})$	2023
Journal Reviewer	
• The VLDB Journal	2023
\bullet IEEE Transactions on Knowledge and Data Engineering (\mathbf{TKDE})	2023
\bullet IEEE Transactions on Neural Networks and Learning Systems (\mathbf{TNNLS})	2023
ROIECTS	

PROJECTS

TEACHING

Teaching Assistant

• KAIST AI506 Data Mining and Search

Spring 2021, 2023

• KAIST AI607 Graph Mining and Social Network Analysis

Fall 2020, 2021, 2022, 2023

• KAIST AI617 Machine Learning for Robotics

Spring 2022

• SKKU CSE3036 Seminar in Computer Engineering

Fall 2019