BU, Fanchen 卜凡辰

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Education

PhD Korea Advanced Institute of Science and Technology (KAIST)

Electrical Engineering

2022.03 - Now

Data Mining Lab (Supervisor: Prof. Shin, Kijung)

Master Korea Advanced Institute of Science and Technology (KAIST)

Electrical Engineering, GPA: 4.21/4.3

2019.09 - 2021.08

Control Lab (Supervisor: Prof. Chang, Dong Eui)

Thesis: A Novel Optimization Algorithm with Orthogonality for Deep Neural Networks Inspired by Feedback

Integrators

Bachelor

University of Chinese Academy of Sciences (UCAS)

Computer Science and Technology, GPA: 3.71/4

2015.09 - 2019.08

Supervisor: Prof. Zhao, Dongbin

Thesis: Vehicle Trajectory Prediction Based on Deep Learning

Publications

- [C6] Bu, Fanchen, and Kijung Shin. "On Improving the Cohesiveness of Graphs by Merging Nodes: Formulation, Analysis, and Algorithms." KDD 2023.
- [C5] Kim, Sunwoo, Fanchen Bu, Minyoung Choe, Jaemin Yoo, and Kijung Shin. "How Transitive Are Real-World Group Interactions? - Measurement and Reproduction." KDD 2023.
- [J2] Bu, Fanchen, Shinhwan Kang, and Kijung Shin. "Interplay between Topology and Edge Weights in Real-World Graphs." Data Mining and Knowledge Discovery 2023.
- [C4] Lee, Soo Yong, Fanchen Bu, Jaemin Yoo, and Kijung Shin. "Towards Deep Attention in Graph Neural Networks: Problems and Remedies." ICML 2023.
- [C3] Kim, Hyunju, Jihoon Ko, Fanchen Bu, and Shin Kijung. "Characterization of Simplicial Complexes by Counting Simplets Beyond Four Nodes." WWW 2023.
- [J1] Bu, Fanchen, Geon Lee, and Kijung Shin. "Hypercore Decomposition for Non-Fragile Hyperedges: Concepts, Algorithms, Observations, and Applications." Data Mining and Knowledge Discovery 2023.
- [C2] Bu, Fanchen, and Dong Eui Chang. "Double prioritized state recycled experience replay." ICCE-Asia 2020.
- [C1] Bu, Fanchen, and Dong Eui Chang. "Feedback gradient descent: Efficient and stable optimization with orthogonality for DNNs." AAAI 2022.

Languages

Chinese Native (Native: Mandarin, Wu Chinese; Intermediate: Cantonese; Elementary: Hokkien)

English Advanced (IELTS 7.5; GRE 333)

Korean Intermediate