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Research interests

Approximate algorithms in data streams, Computer network systems

Education

Peking University

Beijing, China

B.Sc. in Computer Science (double in Mathematics)

2019 – Present

Publications

SketchPolymer: Estimate Per-item Tail Quantile Using One Sketch

Jiarui Guo, Yisen Hong, Yuhan Wu, Yunfei Liu, Tong Yang, Bin Cui

Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD '23**). Aug. 2023

SteadySketch: Finding Steady Flows in Data Streams

Xiaodong Li, Zhuochen Fan, Haoyu Li, Zheng Zhong, Jiarui Guo, Sheng Long, Tong Yang, Bin Cui

2023 IEEE/ACM 31st International Symposium on Quality of Service (**IWQoS '23**). Jun. 2023

PISketch: Finding Persistent and Infrequent Flows

Zhuochen Fan, Zhoujing Hu, Yuhan Wu, Jiarui Guo, Sha Wang, Wenrui Liu, Tong Yang, Yaofeng Tu, Steve Uhlig

IEEE/ACM Transactions on Networking (**TON**). May. 2023

Finding Simplex Items in Data Streams

Zhuochen Fan, Jiarui Guo, Xiaodong Li, Tong Yang, Yikai Zhao, Yuhan Wu, Bin Cui, Yanwei Xu, Steve Uhlig, Gong Zhang

2023 IEEE 39th International Conference on Data Engineering (**ICDE '23**). Apr. 2023

REncoder: A Space-Time Efficient Range Filter with Local Encoder

Ziwei Wang, Zheng Zhong, Jiarui Guo, Yuhan Wu, Haoyu Li, Tong Yang, Yaofeng Tu, Huanchen Zhang, Bin Cui

2023 IEEE 39th International Conference on Data Engineering (**ICDE '23**). Apr. 2023

BurstSketch: Finding Bursts in Data Streams

Ruijie Miao, Zheng Zhong, Jiarui Guo, Zikun Li, Tong Yang, Bin Cui

IEEE Transactions on Knowledge and Data Engineering (**TKDE**). Nov. 2022

PISketch: Finding Persistent and Infrequent Flows

*Zhuochen Fan, Zhoujing Hu, Yuhan Wu, **Jiarui Guo**, Wenrui Liu, Tong Yang, Hengrui Wang, Yifei Xu, Steve Uhlig, Yaofeng Tu*

Proceedings of the ACM SIGCOMM 2022 Workshop on Formal Foundations and Security of Programmable Network Infrastructures (**FFSPIN '22**). Aug. 2022