ZIYUE LUO

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EDUCATION

| Ph.D., Computer Science The University of Hong Kong, Hong Supervisor: Prof. Chuan Wu | September 2018 - September 2022 ong |
|---|---|
| B.E., Computer Science and Te Hongyixuetang Class, Wuhan Univer | 1 |
| EMPLOYMENT | |
| Postdoctoral Researcher Dept. of Electrical and Computer Er The Ohio State University, US | December 2022 - present ineering, |
| Research Intern Platform for AI (PAI), Alibaba Group, China | July 2019 - September 2020 |
| PRIZES AND AWARDS | |
| ▷ INFOCOM Student Conference Gr | nt 2022 |
| → HKU Foundation Postgraduate Fellow 1. Postgrad | wship 2018 |
| ▷ Third-Class Scholarship for Outsta | ling Students 2016 |
| ▶ National Scholarship | 2015 |
| ▷ First-Class Scholarship for Outstan | ing Students 2015 |
| TEACHING | |
| At the University of Hong Kong: | |
| ▷ COMP7404B Computational intell | ence and machine learning 2019 |
| ▷ ENGG1330 Computer programmin | I 2018 |
| Alibaba Group, China PRIZES AND AWARDS ▷ INFOCOM Student Conference Group HKU Foundation Postgraduate Fereight Printer Class Scholarship for Outstand National Scholarship ▷ First-Class Scholarship for Outstand TEACHING At the University of Hong Kong: ▷ COMP7404B Computational intelligence of the conference Group HKU Foundation Printer Class Scholarship for Outstand TEACHING | nt wship ling Students ing Students ence and machine learning |

PUBLICATIONS

Ziyue Luo, Yixin Bao, Chuan Wu. "Optimizing Task Placement and Online Scheduling for Distributed GNN Training Acceleration in Heterogeneous Systems," in IEEE/ACM Transactions on Networking, vol. 32, no. 5, pp. 3715 - 3729, October 2024.

Ye Tian, Zhen Jia, **Ziyue Luo**, Yida Wang, Chuan Wu. "DiffusionPipe: Training Large Diffusion Models with Efficient Pipelines," in the Seventh Conference on Machine Learning and Systems (MLSys), Santa Clara, USA, May 13 - 16, 2024.

Bingqian Du, Jun Liu, **Ziyue Luo**, Chuan Wu, Qiankun Zhang, Hai Jin. "Expediting Distributed GNN Training with Feature-only Partition and Optimized Communication Planning," in IEEE INFOCOM, Vancouver, Canada, May 20-23, 2024.

Zhe Zhang, **Ziyue Luo**, Chuan Wu. "Two-level Graph Caching for Expediting Distributed GNN Training," in IEEE INFOCOM, New York, USA, May 17-20, 2023.

Ziyue Luo, Yixin Bao, Chuan Wu. "Optimizing Task Placement and Online Scheduling for Distributed GNN Training Acceleration," in IEEE INFOCOM, online, May 2-5, 2022.

Ziyue Luo, Xiaodong Yi, Guoping Long, Shiqing Fan, Chuan Wu, Wei Lin. "Efficient Pipeline Planning for Expedited Distributed DNN Training," in IEEE INFOCOM, online, May 2-5, 2022.

Jingyan Jiang, **Ziyue Luo**, Chenghao Hu, Zhaoliang He, Zhi Wang, Shutao Xia, Chuan Wu. "Joint Model and Data Adaptation for Cloud Inference Serving," in the 42th IEEE Real-time Systems Symposuim (RTSS), Dortmund, Germany, December 7-10, 2021.

Xiaodong Yi, **Ziyue Luo**, Chen Meng, Mengdi Wang, Guoping Long, Chuan Wu, Jun Yang, Wei Lin. "Fast Training of Deep Learning Models over Multiple GPUs," in ACM/IFIP Middleware, Delft, The Netherlands, December 7-11, 2020.

Xiaodong Yi, Shiwei Zhang, **Ziyue Luo**, Guoping Long, Lansong Diao, Chuan Wu, Zhen Zheng, Jun Yang, Wei Lin. "Optimizing Distributed Training Deployment in Heterogeneous GPU Clusters," in ACM CoNEXT, Barcelona, Spain, December 1-4, 2020.

Ziyue Luo, Chuan Wu. "An Online Algorithm for VNF Service Chain Scaling in Datacenters," in IEEE/ACM Transactions on Networking, vol. 28, No. 3, pp. 1061- 1073, June 2020.

Ziyue Luo, Chuan Wu, Zongpeng Li, Wei Zhou. "Scaling Geo-distributed Network Function Chains: A Prediction and Learning Framework," in IEEE Journal on Selected Areas in Communications (JSAC) Special issue on Network Softwarization & Enablers, vol. 37, no. 8, pp. 1838 - 1850, August 2019.

Ziyue Luo, Zongpeng Li, Chuan Wu. "Online Cloud Resource Allocation and Pricing with Server Speed Scaling," in IEEE ICC 2018, Kansas City, MO, USA, May 20-24, 2018.