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(Ph.D. Candidate)

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Education Background

2016 – present: Ph.D.S. major in Computer Software and Theory, College of Computer Science and Technology, Jilin University (JLU), China. Supervisor: Prof. Bo Yang

2013 – 2016: M.S. major in Software Engineering, Software College of Jilin University (JLU), China. Supervisor: Prof. Yonggang Zhang

2009 – 2013: B.S. major in Software Engineering, Software College of Jilin University (JLU), China.

Research Experience

2020.10 – 2021.01: Worked as an intern in Huawei.

2019.08 – 2020.06: Visited Prof. Jiming Liu's group at Hong Kong Baptist University as an exchange student.

2018.07 – 2018.10: Visited Dr. Xia Hu's group at Texas A&M as a visiting student.

2016 – present: Deep Bayesian Optimization on Graphs/Networks

My research interests include Bayesian optimization, representation learning, graph generation models and constraint satisfaction problems.

Research projects I am participating in and participated in include:

- Jilin Province Key Scientific and Technological Research and Development Project: Research, development and application of fast knowledge sharing system in the era of big data and mobile Internet (大数据和移动互联网时代的快速知识共享系统研究、开发与应用) (20180201067GX);
- Jilin Province Key Scientific and Technological Research and Development Project (20180201044GX);
- Jilin Province Natural Science Foundation: (20200201036JC);
- Hong Kong Research Grants Council (RGC) under project RGC/HKBU12201318;
- Cooperation project with Huawei: Adaptive intelligent fault detection and diagnosis system based on prior knowledge (基于先验知识自适应的故障发现与诊断技术合作项目).

I am serving as a PC member of IJCAI 2021 and a reviewer of IEEE Transactions on Neural Networks and Learning Systems (2020).

Honors & Scholarships

2009-2010, 2011-2012 Academic Scholarship

2018 First prize at the 11th Ph.D. Academic Forum of Jilin University

Publications

- [1].**Jiaxu Cui**, Bo Yang, Bingyi Sun, and Jiming Liu. Cost-Aware Graph Generation: A Deep Bayesian Optimization Approach. The 35th AAAI Conference on Artificial Intelligence (AAAI-21), 2021. (CCF A)
- [2].**Jiaxu Cui**, Bo Yang and Xia Hu. Deep Bayesian Optimization on Attributed Graphs. The 33rd AAAI Conference on Artificial Intelligence (AAAI-19), 2019. (CCF A)
- [3].**Jiaxu Cui**, Bo Yang, Bingyi Sun, Xia Hu and Jiming Liu. Scalable and Parallel Deep Bayesian Optimization on Attributed Graphs. IEEE Transactions on Neural Networks and Learning Systems, 2020. Accepted (Q1, CCF B)
- [4].**Jiaxu Cui**, Qi Tan, Chunxu Zhang, and Bo Yang. A Novel Framework of Graph Bayesian Optimization and Its Applications to Real-World Network Analysis. Expert Systems with Applications (ESWA). 2021. Accepted (Q1, CCF C).
- [5].**Jiaxu Cui**, Bo Yang. Survey on Bayesian Optimization Methodology and Applications. Ruan Jian Xue Bao/Journal of Software, 2018,29(10), (in Chinese).
- [6].Xitong Wang, Yonggang Zhang, **Jiaxu Cui**. The New Adaptive ETLBO Algorithms with K-Armed Bandit Model. The 11th International Conference on Knowledge Science, Engineering and Management (KSEM 2018) (CCF C).
- [7].Xiaohui Wei, Bingyi Sun, **Jiaxu Cui**, Gaochao Xu. A Multi-Objective Compounded Local Mobile Cloud Architecture Using Priority Queues to Process Multiple Jobs. Plos One, 2016, 11(7): e0158491.
- [8].Lizheng Ma, **Jiaxu Cui**, Bo Yang. Deep Neural Architecture Search with Deep Graph Bayesian Optimization. WI 2019 Special Session on AI for Social Good in the Connected World, 2019.
- [9].Xiaohui Wei, Bingyi Sun, **Jiaxu Cui**. Recommending Activity to Users via Deep Graph Neural Network. Journal of Jilin University (Engineering and Technology Edition), (in Chinese). Accepted
- [10].Xiaohui Wei, Bingyi Sun, **Jiaxu Cui**. Task Replica Assignment in Mobile Self-Organized Crowdsensing. International Journal of Performability Engineering, 2020, 16(1): 152-162.
- [11].Shuangmei Zhao, **Jiaxu Cui**, Yonggang Zhang. Solving the MaxCSPs using MMC with teaching strategy. Journal of Nanjing University (Natural Science), 2018,54(01):134-147, (in Chinese)
- [12].Yunpeng Wu, **Jiaxu Cui**, Yonggang Zhang. A New ETLBO Algorithm Combined with Reward Mechanism. Journal of Jilin University (Science Edition), 2019,57(6), (in Chinese)