Curriculum Vitae

Zhaoliang Chen
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Research Interests

Graph Neural Network and its applications
Multimodal Learning
Differentiable/Explainable Neural Network
Low-rank Optimization
Matrix Completion
Machine Learning

Education

09/2019 -- 06/2024:	***Ph.D. Candidate*** in Computer Science and Technology College of Computer and Data Science, *(Master-doctor combined program without a master degree)* Fujian Provincial Key Laboratory of Network Computing and Intelligent Information Processing, Fuzhou University, China. Supervisor: *Prof. Wenzhong Guo (郭文忠) and Prof. Shiping Wang (王石平)*
10/2022 -- 10/2023:	***Visiting Scholar*** funded by ***China Scholarship Council (CSC)*** Faculty of Computer Science, Research Group Data Mining and Machine Learning, University of Vienna, Austria. Supervisor: *Prof. Claudia Plant*
09/2015 -- 06/2019:	***B.E.*** in Software Engineering College of Mathematics and Computer Sciences, Fuzhou University, China. Supervisor: *Prof. Fei Chen (陈飞)*

Professional Skills

Programming/Software: Python, MATLAB, LaTex, etc.

Deep Learning Toolkit: Pytorch, Tensorflow, etc.

Selected Publications

I have authored **24 publications** in the field computer science, please refer to my homepage for a full list.

※ Advisor as the first author † Master students I advised

1. **Zhaoliang Chen**, Zhihao Wu, Shiping Wang, Wenzhong Guo. Dual Low-Rank Graph Autoencoder for Semantic and Topological Networks. ***The Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)***, 2023, 37 (4): 4191-4198 **(CCF Rank A, Acceptance rate = 19.6%)**
2. **Zhaoliang Chen**, Zhihao Wu, Zhenghong Lin, Shiping Wang, Claudia Plant and Wenzhong Guo. AGNN: Alternating Graph-Regularized Neural Networks to Alleviate Over-Smoothing. ***IEEE Transactions on Neural Network and Learning Systems (TNNLS)***, 2023. **(SCI Q1, CCF Rank B)**
3. **Zhaoliang Chen**, Lele Fu, Jie Yao, Wenzhong Guo, Claudia Plant, Shiping Wang. Learnable Graph Convolutional Network and Feature Fusion for Multi-view Learning. ***Information Fusion***, 2023, 95: 109-119 **(SCI Q1, CCF Rank B, ESI Highly Cited Paper)**
4. **Zhaoliang Chen**, Zhihao Wu, Claudia Plant, Shiping Wang, Wenzhong Guo. Attributed Multi-order Graph Convolutional Network for Heterogeneous Graphs. ***Neural Networks***, 2024 (**SCI Q1, CCF Rank B**)
5. Shiping Wang※, **Zhaoliang Chen**※, Shide Du, Zhouchen Lin. Learning Deep Sparse Regularizers with Applications to Multi-View Clustering and Semi-Supervised Classification. ***IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)***, 2022, 44 (9): 5042-5055 **(SCI Q1, CCF Rank A)**
6. **Zhaoliang Chen**, Lele Fu, Shunxin Xiao, Shiping Wang, Claudia Plant, Wenzhong Guo. Multi-Channel Graph Convolutional Network with Differentiable Node Selection. ***ACM Transactions on Knowledge Discovery from Data (TKDD),*** 2024, 18(1): 1-21 **(CCF Rank B, SCI Q1)**
7. **Zhaoliang Chen**, Jie Yao, Guobao Xiao, Shiping Wang. Efficient and Differentiable Low-rank Matrix Completion with Back Propagation. ***IEEE Transactions on Multimedia (TMM)***, 2023, 25: 228-242 **(SCI Q1, CCF Rank B)**
8. **Zhaoliang Chen**, Shiping Wang. A Review on Matrix Completion for Recommender Systems. ***Knowledge and Information Systems (KAIS)***, 2022, 64 (1): 1-34 **(CCF Rank B)**
9. **Zhaoliang Chen**, Wei Zhao, Shiping Wang. Kernel Meets Recommender Systems: A Multi-kernel Interpolation for Matrix Completion. ***Expert Systems with Applications***, 2021, 168: 114436 **(SCI Q1)**.
10. Zhihao Wu†, **Zhaoliang Chen**, Shide Du, Sujia Huang, Shiping Wang. Graph Convolutional Network with Elastic Topology. ***Pattern Recognition (PR)***, 2024 **(SCI Q1, CCF Rank B)**.
11. Jielong Lu, Zhihao Wu, Luying Zhong, **Zhaoliang Chen**, Hong Zhao, Shiping Wang. Generative Essential Graph Convolutional Network for Multi-view Semi-supervised Classification, ***IEEE Transactions on Multimedia (TMM)***, 2024 **(SCI Q1, CCF Rank B)**.

12. Luying Zhong[†], **Zhaoliang Chen**, Zhihao Wu, Shide Du, Zheyi Chen, Shiping Wang. Learnable Graph Convolutional Network with Semi-supervised Graph Information Bottleneck. ***IEEE Transactions on Neural Network and Learning Systems (TNNLS)***, 2023**. (SCI Q1, CCF Rank B)**

13. Luying Zhong[†], Jielong Lu, **Zhaoliang Chen**, Na Song, Shiping Wang. Adaptive Multi-channel Contrastive Graph Convolutional Network with Graph and Feature Fusion. ***Information Sciences***, 2024, 658: 120012. **(SCI Q1, CCF Rank B)**

14. Yuhong Chen[†], Zhihao Wu[†], **Zhaoliang Chen**, Mianxiong Dong, Shiping Wang. Joint Learning of Feature and Topology for Multi-view Graph Convolutional Network, ***Neural Networks***, 2023, 168: 161-170. **(SCI Q1, CCF Rank B)**

15. Shunxin Xiao, Shide Du, **Zhaoliang Chen**, Yunhe Zhang, Shiping Wang. Dual Fusion-Propagation Graph Neural Network for Multi-View Clustering. ***IEEE Transactions on Multimedia (TMM)***, 2023 **(SCI Q1, CCF Rank B)**

16. Zhihao Wu[†], Xincan Lin, Zhenghong Lin, **Zhaoliang Chen**, Shiping Wang. Interpretable Graph Convolutional Network for Multi-view Semi-supervised Learning. ***IEEE Transactions on Multimedia (TMM)***, 2023, 25: 8593-8606 **(SCI Q1, CCF Rank B)**

17. Luying Zhong[†], Jinbin Yang, **Zhaoliang Chen**, and Shiping Wang. Contrastive Graph Convolutional Networks with Generative Adjacency Matrix. ***IEEE Transactions on Signal Processing (TSP)***, 2023, 71: 772-785 **(SCI Q1)**

18. Lele Fu, **Zhaoliang Chen**, Yongyong Chen, and Shiping Wang. Unified Low-Rank Tensor Learning and Spectral Embedding for Multi-View Subspace Clustering. ***IEEE Transactions on Multimedia (TMM)***, 2023, 25: 4972-4985 **(SCI Q1, CCF Rank B)**

19. Shiping Wang[※], **Zhaoliang Chen**[※], William Zhu, Fei-Yue Wang. Deep Random Walk of Unitary Invariance for Large-scale Data Representation. ***Information Sciences***, 2021, 554: 1-14 **(SCI Q1, CCF Rank B)**

20. Lele Fu, **Zhaoliang Chen**, S Huang, S Huang, Shiping Wang. Multi-View Learning via Low-Rank Tensor Optimization. ***IEEE International Conference on Multimedia and Expo (ICME)***, 2021, 1-6 **(CCF Rank B, Acceptance rate = 30%)**

21. Shide Du, Zhanghui Liu, **Zhaoliang Chen**, Wenyuan Yang, Shiping Wang. Differentiable Bi-sparse Multi-view Co-clustering. ***IEEE Transactions on Signal Processing (TSP)***, 2021, 69: 4623 – 4636 **(SCI Q1)**

Selected Preprints

# Equal contribution

1. **Zhaoliang Chen**, Zhihao Wu, Ylli Sadikaj, Claudia Plant, Hong-Ning Dai, Shiping Wang, Wenzhong Guo. ADEdgeDrop: Adversarial Edge Dropping for Robust Graph Neural Networks.

Academic Services

Reviewer: IEEE Transactions on Image Processing
IEEE Transactions on Neural Networks and Learning Systems
IEEE Transactions on Multimedia

	IEEE Transactions on Intelligent Transportation Systems
	IEEE Transactions on Systems, Man, and Cybernetics: Systems
	IEEE Transactions on Signal Processing
	IEEE Signal Processing Letters
	Artificial Intelligence Review
	Neural Processing Letters
PC Member:	ACM MM 2024
	ECCV 2024
	NeurIPS 2024

Awards & Honors

	China National Scholarship for Postgraduates
2022:	**China Scholarship Council** Funding
	Silver Award of the 8th **Fujian International College Students 'Internet+' Innovation and Entrepreneurship Competition**
2021:	Special Prize of **Outstanding Freshman Scholarship** for Ph.D. Student
	Second Prize of **Excellent Academic Scholarship** of Master Student
	Special Prize of **Outstanding Freshman Scholarship** for Master Student
2019:	**Excellent Undergraduate Thesis for Undergraduates** in Fuzhou University
	Third Prize of **"China Software Cup" Software Design Competition** for College Student
	First Prize Scholarship in Fuzhou University
2017:	Second Prize of the **'Ding Dian' Scholarship** in Fuzhou University

Research Projects

2023.01-2026.12	Research on Cross-media Multi-view Metric Learning based on Differentiable Neural Networks, ***National Natural Science Foundation of China*** under Grant No. 61672159.
2022.01-2025.12	Intelligent Mining of Cross-strait Hot Events across Social Networks and Media, ***Strait Joint Key Fund of the National Natural Science Foundation of China*** under Grant No. U21A20472.
2018.01-2021.12	Social Multimedia Big Data Collaborative Perception and Computing for Hot Events across the Strait***, Strait Joint Key Fund of the National Natural Science Foundation of China*** under Grant No. U1705262.
2020.08-2023.07	Research on Key Technology of Multi-view Semi-supervised Feature Fusion and Data Classification, ***Natural Science Foundation of Fujian Province*** under Grant No. 2020J01130193.