

Resume of Bingbing Jiang



Bingbing Jiang received the BSc degree from the School of Computer Science and Technology, Chongqing University of Posts and Telecommunications (CQUPT), Chongqing, China, in 2014, and the PhD degree from the School of Computer Science and Technology, University of Science and Technology of China (USTC), Hefei, China, in 2019. He is currently an Associate Professor at the School of Information Science and Technology, Hangzhou Normal University (HZNU), Hangzhou, China. His research interests lie in robust machine learning theory and data mining methods for various application scenarios, specifically including semi-supervised learning for big data, sparse learning for complex data, representation learning for high-dimensional data, causal learning and inference, Bayesian optimization, multi-view fusion and learning, and unsupervised clustering. His ORCID is [0000-0003-2217-6202](https://orcid.org/0000-0003-2217-6202), and his Google Scholar is: <https://scholar.google.com/citations?user=mJhOACUAAAAJ>.

Dr. Jiang has published more than 60 research peer-reviewed journal and prestigious conference papers in these fields, including IEEE Transactions on Pattern Analysis and Machine Intelligence, Information Fusion, Pattern Recognition, IEEE Transactions on Neural Network and Learning System, IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Cybernetics, IEEE Transactions on Industrial Informatics, IEEE Transactions on Geoscience and Remote Sensing, IEEE Transactions on Emerging Topics in Computational Intelligence, Information Sciences, Expert Systems with Applications, ACM Transactions on Knowledge Discovery from Data, CAAI Transactions on Intelligence Technology, AAAI, IJCAI, ACM SIGKDD, ACM MM, ACM CIKM, etc. He is currently serving as a reviewer or program committee (PC) member for more than 20 prestigious journals and conferences. He serves as an Editorial Board member of Applied Soft Computing (Elsevier, Q1) and as an Associate Editor of Neurocomputing (Elsevier, Q1). For anything about the research and other related matters, please feel free to contact me via Email (jiangbb@hznu.edu.cn).

Main Research Interests

- Trustworthy Semi-supervised Learning: using a small amount of labeled data and a large amount of unlabeled data to improve the learning performance.
- Multi-view Learning: focusing on the robust representation, effective fusion, and intelligent analysis for homogeneous/heterogeneous data.
- Feature Selection for high-dimensional data, Algorithm Selection for LLM.
- Causal Discovery, Bayesian Inference, Sparse Learning.

- Fuzzy Clustering, Spectral Clustering, Density Clustering, Fault Detection for Industrial Processes, Graph Convolutional Networks.

Work and Education Experiences

- 2019.10- Present, Hangzhou Normal University, Associate Professor
 - Main cooperators: Weiping Ding, Zidong Wang, and Huanhuan Chen
- 2014.09-2019.06, University of Science and Technology of China, PhD
 - Supervisors and main cooperators: Huanhuan Chen and Xin Yao
 - Honors and Awards: Special Prize of President Scholarship in the Chinese Academy of Sciences in 2019, Outstanding Graduate Award of USTC in 2019, and National Scholarship of China in 2018.
- 2010.09-2014.06, Chongqing University of Posts and Telecommunications
 - Undergraduate advisor: Qinghua Zhang

Professional Services

Editorship Services

- Editorial Board Member, Applied Soft Computing (2024-present) (Q1)
- Associate Editor, Neurocomputing (2025-present) (Q1)

Program Committee Members

- The 42nd and 43rd International Conference on Machine Learning (ICML 2025/2026)
- The 37th, 38th, and 40th AAAI Conference on Artificial Intelligence (AAAI 2023/24/26)
- The 13th International Conference on Learning Representations (ICLR 2025)
- The 38th Annual Conference on Neural Information Processing Systems (NeurIPS 2024)
- The 33rd and 34th ACM International Conference on Multimedia (ACM MM 2024/25)

Journal Invited Reviewers

- IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE)
- IEEE Transactions on Knowledge and Data Engineering (IEEE)
- IEEE Transactions on Neural Networks and Learning Systems (IEEE)
- IEEE Transactions on Fuzzy Systems (IEEE)
- IEEE Transactions on Image Processing (IEEE)
- IEEE Transactions on Emerging Topics in Computational Intelligence (IEEE)
- IEEE Transactions on Industrial Informatics (IEEE)
- IEEE Transactions on Big Data (IEEE)
- IEEE Transactions on Cybernetics (IEEE)
- IEEE Transactions on Information Forensics & Security (IEEE)
- IEEE Transactions on Dependable and Secure Computing (IEEE)
- IEEE Transactions on Circuits and Systems for Video Technology (IEEE)
- IEEE Transactions on Multimedia (IEEE)
- IEEE Transactions on Systems, Man and Cybernetics: Systems (IEEE)

- IEEE Transactions on Signal Processing (IEEE)
- IEEE/CAA Journal of Automatica Sinica (IEEE)
- IEEE Internet of Things Journal (IEEE)
- IEEE Journal of Biomedical and Health Informatics (IEEE)
- Information Fusion (Elsevier)
- Pattern Recognition (Elsevier)
- Information Sciences (Elsevier)
- Applied Soft Computing (Elsevier)
- Neurocomputing (Elsevier)
- Neural Networks (Elsevier)
- Expert Systems with Applications (Elsevier)
- Knowledge-base Systems (Elsevier)
- ACM Transactions on Knowledge Discovery from Data (ACM)

Publications Full List (* Corresponding author, † Equal contribution)

- [1] Xinyan Liang, ShuaiLi, Qian Guo, Yuhua Qian, **Bingbing Jiang**, et al. Evolutionary Multi-View Classification via Eliminating Individual Fitness Bias[C]. In Conference on Neural Information Processing Systems. 2026 (Accepted).
- [2] Yadi Wang, Tengfei Zhou, Xiaoding Guo, **Bingbing Jiang**, et al. Adaptive Group Sparse Multi-View Classification Method based on Mutual Information[J]. Pattern Recognition. DOI: 10.1016/j.patcog.2025.112931.
- [3] **Bingbing Jiang**, Zhongli Wang, Jie Yang, Guang-Kui Xu, Wei Chen, et al. Self-Enhanced Density Clustering for High Dimension and Low Sample Size Data[C]. In the ACM SIGKDD Conference on Knowledge Discovery and Data Mining. 2026 (Accepted).
- [4] Tongxue Zhou, Mingyang Li, Su Ruan, Tingjin Luo, **Bingbing Jiang**, et al. A reliable framework for brain tumor segmentation via multi-modal fusion and uncertainty modeling[J]. Information Fusion. DOI: 10.1016/j.inffus.2025.104085.
- [5] Jie Yang, Cheng-You Lu, Zhongli Wang, Hsiang-Ting Chen, Guang-Kui Xu, Chenglong Zhang, Shuting Dong, Xinyan Liang, **Bingbing Jiang***. Multi-View Clustering with Granularity-Aware Pseudo Supervision[C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2026 (Accepted).
- [6] Li Lv, Qian Guo, Li Zhang, Liang Du, **Bingbing Jiang**, et al. Uncertainty-Guided View-Strength-Aware Feature Utilization for Multi-View Classification [C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2026 (Accepted).
- [7] Xinyan Liang, Shijie Wang, Yuhua Qian, Qian Guo, Liang Du, **Bingbing Jiang**, et al. Trusted Multi-View Classification with Expert Knowledge Constraints[C]. In the International Conference on Machine Learning. 2025 (Accepted).
- [8] Jiale Zhou, Yan Chen, **Bingbing Jiang**, Peng Zhou, et al. Robust Tensor Learning with Graph Diffusion for Scalable Multi-view Graph Clustering[C]. In Proceedings of the ACM International Conference on Multimedia. 2025: 2207-2215.
- [9] Junyi Guan, **Bingbing Jiang**, WeiguoSheng, Yangyang Zhao, et al. Peak-Padding: Clustering by Padding Density Peaks With the Minimum Padding Cost[J]. IEEE Transactions on Neural Networks and Learning Systems. DOI: 10.1109/TNNLS.2025.3606527.

[10] **Bingbing Jiang**, Chenglong Zhang, Xinyan Liang, et al. Scalable Fuzzy Clustering with Collaborative Structure Learning and Preservation. *IEEE Transactions on Fuzzy Systems*, 2025, 33(9): 3047-3060.

[11] Jie Yang, Wei Chen, Feng Liu, Peng Zhou, Zhongli Wang, Xinyan Liang, **Bingbing Jiang***. Multi-view Clustering via Multi-granularity Ensemble[C]. In Proceedings of the International Joint Conference on Artificial Intelligence. 2025: 6794-6802.

[12] Yan Chen, **Bingbing Jiang**, Peng Zhou, Lei Duan, Yuhua Qian, Liang Du. Balanced Multiple Kernel Clustering with Discrete Partition Entropy Auto Regularization[C]. In Proceedings of the ACM International Conference on Multimedia. 2025: 2197-2206.

[13] **Bingbing Jiang**, Chenglong Zhang, Xinyan Liang, et al. Collaborative Similarity Fusion and Consistency Recovery for Incomplete Multi-view Clustering[C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2025: 21411-21419.

[14] Zhongli Wang, Jie Yang, Junyi Guan, Chenglong Zhang, Xinyan Liang, **Bingbing Jiang***, Weiguo Sheng. Enhanced Density Peak Clustering for High-dimensional Data[C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2025: 17617-17625.

[15] Zhaolong Ling, Jiale Yu, Yiwen Zhang, Debo Cheng, Peng Zhou, Xingyu Wu, **Bingbing Jiang**, Kui Yu. Local Causal Discovery Without Causal Sufficiency[C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2025: 18737-18745.

[16] **Bingbing Jiang**, Jun Liu, Zidong Wang, Jie Yang, Yadi Wang, Weiguo Sheng, Chenglong Zhang, Weiping Ding. Semi-supervised Multi-view Feature Selection with Adaptive Similarity Fusion and Learning[J]. *Pattern Recognition*, 2025, 159:111159.

[17] Chenglong Zhang, Xinjie Zhu, Zidong Wang, Yan Zhong, Weiguo Sheng, Weiping Ding, **Bingbing Jiang***. Discriminative Multi-View Fusion via Adaptive Regression[J]. *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2024, 8(6): 3821-3833.

[18] **Bingbing Jiang**, Xingyu Wu, Xiren Zhou, et al. Semi-supervised multiview feature selection with adaptive graph learning[J]. *IEEE Transactions on Neural Networks and Learning Systems*, 2024, 35(3) 3615-3629.

[19] Chenglong Zhang, Yang Fang, Xinyan Liang, Han Zhang, Peng Zhou, Xingyu Wu, Jie Yang, **Bingbing Jiang***, Weiguo Sheng. Efficient Multi-view Unsupervised Feature Selection with Adaptive Structure Learning and Inference[C]. In Proceedings of the International Joint Conference on Artificial Intelligence. 2024: 5443-5452.

[20] Chenglong Zhang, Xinyan Liang, Peng Zhou, Zhaolong Lin, Yingwei Zhang, Xinyu Wu, Weiguo Sheng, **Bingbing Jiang***. Scalable Multi-view Unsupervised Feature Selection with Structure Learning and Fusion[C]. In Proceedings of the ACM International Conference on Multimedia. 2024: 5479-5488.

[21] Xingyu Wu, Yan Zhong, Zhaolong Ling, Jie Yang, Li Li, Weiguo Sheng, **Bingbing Jiang***. Nonlinear learning method for local causal structures[J]. *Information Sciences*, 2024, 654: 119789.

[22] Zihao Xu, Chenglong Zhang, Zhaolong Ling, Peng Zhou, Yan Zhong, Li Li, Han Zhang, Weiguo Sheng, **Bingbing Jiang***. Multi-View Semi-Supervised Feature Selection with Graph Convolutional Networks[C]. In Proceedings of the International Joint Conference on Neural Networks. 2024:1-8.

[23] Chenglong Zhang, **Bingbing Jiang***, Zidong Wang, et al. Efficient multi-view semi-supervised feature selection[J]. *Information Sciences*, 2023, 649:119675.

[24] **Bingbing Jiang**, Chenglong Zhang, Yan Zhong, et al. Adaptive collaborative fusion for multi-view semi-supervised classification[J]. *Information Fusion*, 2023, 96: 37-50.

[25] Yangfeng Lu, Chenglong Zhang, **Bingbing Jiang***. Accelerated Semi-supervised Feature Selection via Adaptive Bipartite Graph[C]. *Proceedings of the International Conference on Artificial Intelligence and Pattern Recognition*. 2023: 592-5498.

[26] **Bingbing Jiang**, Junhao Xiang, Xingyu Wu, et al. Robust multi-view learning via adaptive regression[J]. *Information Sciences*, 2022, 610: 916-937.

[27] **Bingbing Jiang**, Wenda He, Xingyu Wu, et al. Semi-Supervised Feature Selection with Adaptive Graph Learning[J]. *ACTA Electronica Sinica*, 2022, 50(7):1643-1652.

[28] **Bingbing Jiang**, Junhao Xiang, Xingyu Wu, et al. Robust adaptive-weighting multi-view classification[C]. In *Proceedings of the ACM International Conference on Information & Knowledge Management*. 2021: 3117-3121.

[29] **Bingbing Jiang**, Chang Li, Maarten De Rijke, Huanhuan Chen, Xin Yao. Probabilistic feature selection and classification vector machine[J]. *ACM Transactions on Knowledge Discovery from Data*, 2019, 13(2): 1-27.

[30] **Bingbing Jiang**, Xingyu Wu, Kui Yu, Huanhuan Chen. Joint semi-supervised feature selection and classification through Bayesian approach[C]. In *Proceedings of the AAAI Conference on Artificial Intelligence*. 2019: 3983-3990.

[31] Huanhuan Chen†, **Bingbing Jiang**†, Xin Yao. Semi-supervised negative correlation learning[J]. *IEEE Transactions on Neural Networks and Learning Systems*, 2018, 29(11): 5366-5379.

[32] **Bingbing Jiang**, Zhengyu Li, Huanhuan Chen, et al. Latent Topic Text Representation Learning on Statistical Manifolds[J], *IEEE Transactions on Neural Networks and Learning Systems*, 2018, 29(11): 5643-5654.

[33] Bingfei Chen, **Bingbing Jiang***, Xiren Zhou, Huanhuan Chen. Manifold learning based on sparse Bayesian approach[J]. *ACTA Electronica Sinica*, 2018, 46(1):98-103.

[34] Wei Wang†, **Bingbing Jiang**†, Shandong Ye, Liting Qian. Risk factor analysis of bone mineral density based on feature selection in type 2 diabetes[C]. *IEEE International Conference on Big Knowledge*, 2018:221-226.

[35] **Bingbing Jiang**, Huanhuan Chen, Bo Yuan, Xin Yao. Scalable graph-based semi-supervised learning through sparse Bayesian model[J]. *IEEE Transactions on Knowledge and Data Engineering*, 2017, 29(12): 2758-2771.

[36] Xingyu Wu, Yan Zhong, Jibin Wu, **Bingbing Jiang**, Kay Chen Tan. Large Language Model-Enhanced Algorithm Selection: Towards Comprehensive Algorithm Representation[C]. In *Proceedings of the International Joint Conference on Artificial Intelligence*. 2024: 5235-5244.

[37] Rongwen Li, Haiyang Hu, Liang Du, Jiarong Chen, **Bingbing Jiang**, Peng Zhou. One-Stage Fair Multi-View Spectral Clustering[C]. In *Proceedings of the ACM International Conference on Multimedia*. 2024: 1407-1416.

[38] Yi Liu, Jiusun Zeng, **Bingbing Jiang**, Weiguo Sheng, Zidong Wang, Lei Xie, Li Li. Structured collaborative sparse dictionary learning for monitoring of multimode processes[J]. *Information Sciences*, 2024, 666: 120444.

[39] Zhaolong Ling, Jingxuan Wu, Yiwen Zhang, Peng Zhou, **Bingbing Jiang**, Kui Yu, Xindong Wu. Causal Feature Selection With Imbalanced Data[J]. *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2025, 9(2): 1610-1626.

[40] Yadi Wang, Mengyao Huang, Liming Zhou, Hangjun Che, **Bingbing Jiang**. Multi-cluster nonlinear unsupervised feature selection via joint manifold learning and generalized Lasso[J]. *Expert Systems with Applications*, 2024, 255:124502.

[41] Yang Fang, Bailian Xie, Usrah Khairuddin, Zijian Min, **Bingbing Jiang**, Weisheng Li. DPT-tracker: Dual pooling transformer for efficient visual tracking[J]. *CAAI Transactions on Intelligence Technology*, 2024, 9:948-959.

[42] Xingyu Wu, **Bingbing Jiang**, Yan Zhong, Huanhuan Chen. Multi-target Markov boundary discovery: Theory, algorithm, and application[J]. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2023, 45(4): 4964-4980.

[43] Xingyu Wu, **Bingbing Jiang**, Tianhao Wu, et al. Practical Markov Boundary Learning without Strong Assumptions[C]. In *Proceedings of the AAAI Conference on Artificial Intelligence*. 2023: 10388-10398.

[44] Xingyu Wu, **Bingbing Jiang**, Xiangyu Wang, et al. Feature selection in the data stream based on incremental Markov boundary learning[J]. *IEEE Transactions on Neural Networks and Learning Systems*, 2023, 34(10): 6740-6754.

[45] Yang Fang, Bailian Xie, **Bingbing Jiang**, Xuhui Ke, Yan Li. SPPT: Siamese Pyramid Pooling Transformer for Visual Object Tracking[J]. *Human-centric Computing and Information Sciences*, 2023, 13(59):1-17.

[46] Zijie Luo, Weiguo Sheng, **Bingbing Jiang**, Yi Liu. Structure-Guided Graphical Lasso for Process Monitoring[C]. *2023 CAA Symposium on Fault Detection, Supervision and Safety for Technical Processes*. 2023:1-6.

[47] Xiren Zhou, Qiuju Chen, **Bingbing Jiang**, Huanhuan Chen. An Underground Pipeline Mapping Method Based on Fusion of Multisource Data[J]. *IEEE Transactions on Geoscience and Remote Sensing*, 2022, 60: 4511711.

[48] Yang Fang, Bei Luo, Ting Zhao, Dong He, **Bingbing Jiang**, Qilie Liu. ST-SIGMA: Spatio-temporal semantics and interaction graph aggregation for multi-agent perception and trajectory forecasting[J]. *CAAI Transactions on Intelligence Technology*, 2022, 7:744-757.

[49] Yi Liu, Jiusun Zeng, Lei Xie, **Bingbing Jiang**, Dongping Zhang. Row-column overcomplete structured dictionary learning for enhanced fault detection and isolation[J]. *IEEE Transactions on Industrial Informatics*, 2022, 19(5):7032-7043.

[50] Xingyu Wu, Zhenchao Tao, **Bingbing Jiang**, et al. Domain knowledge-enhanced variable selection for biomedical data analysis[J]. *Information Sciences*, 2022, 606: 469-488.

[51] Yadi Wang, Wenbo Zhang, Minghu Fan, Qiang Ge, Baojun Qiao, Xianyu Zuo, **Bingbing Jiang**. Regression with adaptive lasso and correlation based penalty[J]. *Applied Mathematical Modelling*, 2022, 105:175-196.

[52] Xingyu Wu, **Bingbing Jiang**, Kui Yu, Huanhuan Chen. Separation and Recovery Markov Boundary Discovery and Its Application in EEG-based Emotion Recognition[J]. *Information Sciences*, 2021, 571(9):262-278.

[53] Yaqiang Yao, Yang Li, **Bingbing Jiang**, Huanhuan Chen. Multiple kernel k-means clustering by selecting representative kernels[J]. *IEEE Transactions on Neural Networks and Learning Systems*, 2021, 32(11):4983-4996.

[54] Yan Zhong, Xingyu Wu, **Bingbing Jiang**, Huanhuan Chen. Multi-label Local-to-Global Feature Selection[C]. *International Joint Conference on Neural Networks*, 2021:1-8.

[55] Yang Li, **Bingbing Jiang**, Huanhuan Chen, Xin Yao. Symbolic sequence classification in the

fractal space[J]. IEEE Transactions on Emerging Topics in Computational Intelligence 2021,5(2):168-177.

[56] Yi Liu, Jiusun Zeng, **Bingbing Jiang**, Xun Lang, Lei Xie. Structured Dictionary Learning for Fault Detection and Isolation[C]. CAA Symposium on Fault Detection, Supervision, and Safety for Technical Processes, 2021:1-6.

[57] Xingyu Wu, **Bingbing Jiang**, Kui Yu, Huanhuan Chen, Chunyan Miao. Multi-label causal feature selection[C]. In Proceedings of the AAAI Conference on Artificial Intelligence. 2020: 6430-6437.

[58] Xingyu Wu, **Bingbing Jiang**, Kui Yu, Chunyan Miao, Huanhuan Chen. Accurate Markov Boundary Discovery for Causal Feature Selection[J], IEEE Transactions on Cybernetics, 2020, 50(12): 4983-4996.

[59] Shengfei Lyu, Xing Tian, Yang Li, **Bingbing Jiang**, Huanhuan Chen. Multiclass probabilistic classification vector machine[J]. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31(10):3906-3919.

[60] Xingyu Wu, **Bingbing Jiang**, Yan Zhong, Huanhuan Chen. Tolerant Markov Boundary Discovery for Feature Selection. In Proceedings of the ACM International Conference on Information & Knowledge Management. 2020: 2261-2264.

[61] Yangyan Xu, Chenxin Wu, **Bingbing Jiang**, Weiguo Sheng. An Adaptive Water Wave Optimization Algorithm with Enhanced Wave Interaction[C]. IEEE Congress on Evolutionary Computation, 2020:1-8.