

刘新旺简历

中国人民解放军国防科技大学计算机学院教授, 博导

国家杰青 (2023), 国家优青 (2019)

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研究兴趣

机器学习, 计算机视觉, 图像处理, 数据挖掘, 模式识别

教育背景

国防科技大学, 计算机科学与技术, 博士

2009-02 至 2013-12

国防科技大学, 计算机科学与技术, 硕士

2006-09 至 2008-12

研究经历

国防科技大学计算机学院, 教授

2019-12 至今

英国爱丁堡大学信息学院, 访问学者

2020-01 至 2021-01

国防科技大学计算机学院, 副教授

2018-12 至 2019-11

悉尼科技大学, 访问学者

2017-07 至 2017-11

国防科技大学计算机学院, 讲师

2014-01 至 2018-11

代表性论著

1. **Xinwang Liu**, Yi Zhang, Li Liu, Chang Tang, Limin Peng, Long Lan, Dewen Hu: Sample Adaptive Localized Simple Multiple Kernel K-means and Its Application in Parcellation of Human Cerebral Cortex. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025, 47(9): 8134-8147. (CCF Rank A)
2. **Xinwang Liu**: Hyperparameter-Free Localized Simple Multiple Kernel K-means with Global Optimum. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2023, 45(7): 8566-8576. (CCF Rank A)
3. **Xinwang Liu**: SimpleMKKM: Simple Multiple Kernel K-means. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2022, 45(4): 5174-5186. (CCF Rank A)
4. **Xinwang Liu**: Incomplete Multiple Kernel Alignment Maximization for Clustering. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2021, 46(3): 1412-1424. (CCF Rank A)

5. **Xinwang Liu***, Miaomiao Li, Chang Tang, Jingyuan Xia, Jian Xiong, Li Liu, Marius Kloft, EnZhu: Efficient and Effective Regularized Incomplete Multi-view Clustering. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2021, 43(8): 2634-2646. (CCF Rank A)
6. **Xinwang Liu**, Xinzhong Zhu, Miaomiao Li, Lei Wang, Chang Tang, Jianping Yin, Dinggang Shen, Huaimin Wang, Wen Gao: Late Fusion Incomplete Multi-View Clustering, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2019, 41(10): 2410-2423. (CCF Rank A)
7. **Xinwang Liu**, Xinzhong Zhu, Miaomiao Li, Lei Wang, En Zhu, Tongliang Liu, Marius Kloft, Dinggang Shen, Jianping Yin, Wen Gao: Multiple Kernel k-means with Incomplete Kernels, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2020, 42(5): 1191-1204. (CCF Rank A)
8. **Xinwang Liu**, Lei Wang, Xinzhong Zhu, Miaomiao Li, En Zhu, Tongliang Liu, Li Liu, Yong Dou, Jianping Yin: Absent Multiple Kernel Learning Algorithms, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2020, 42(6): 1303-1316. (CCF Rank A)
9. Meng Liu, Ke Liang, Siwei Wang, Xingchen Hu, Sihang Zhou, **Xinwang Liu***: Deep Temporal Graph Clustering: A Comprehensive Benchmark and Datasets, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
10. Liang Li, Yuangang Pan, Yinghua Yao, Junpu Zhang, Moyun Liu, Xueling Zhu, **Xinwang Liu***, Kenli Li, Ivor W. Tsang, Keqin Li: Generalized Probabilistic Graphical Modeling for Multi-view Bipartite Graph Clustering. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
11. Ke Liang, Lingyuan Meng, Hao Li, Jun Wang, Long Lan, Miaomiao Li, **Xinwang Liu***, Huaimin Wang: From Concrete to Abstract: Multi-view Clustering on Relational Knowledge. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
12. Tao Sun, Li Shen, **Xinwang Liu***: On Nonconvex SGD under Unbounded Noise with Weak Gradient Lipschitz and Delayed Stochastic Gradient. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025, 47(8): 7053-7063. (CCF Rank A)
13. Wenxuan Tu, Sihang Zhou, **Xinwang Liu***, Zhiping Cai, Yawei Zhao, Yue Liu, Kunlun He*: WAGE: Weight-Sharing Attribute-Missing Graph Autoencoder. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025, 47(7): 5760-5777. (CCF Rank A)
14. Peng Zhou, Rongwen Li, Zhaolong Ling, Liang Du, **Xinwang Liu***: Fair Clustering Ensemble with Equal Cluster Capacity. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025, 47(3): 1729-1746. (CCF Rank A)
15. Yawei Zhao, Qinghe Liu, Pan Liu, **Xinwang Liu***, Kunlun He*: Medical Federated Model with Mixture of Personalized and Shared Components. [IEEE Trans-](#)

actions on Pattern Analysis and Machine Intelligence (TPAMI), 2025, 47(1): 433-449. (CCF Rank A)

16. Ke Liang, Lingyuan Meng, Meng Liu, Yue Liu, Wenxuan Tu, Siwei Wang, Sihang Zhou, Xinwang Liu*, Fuchun Sun, Kunlun He: A Survey of Knowledge Graph Reasoning on Graph Types: Static, Dynamic, and Multi-Modal, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2024, 46(12): 9456-9478. (CCF Rank A)
17. Weixuan Liang, Chang Tang, Xinwang Liu*, Yong Liu, Jiyuan Liu, En Zhu, Kunlun He: On the Consistency and Large-Scale Extension of Multiple Kernel Clustering, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2024, 46(10): 6935-6947. (CCF Rank A)
18. Jiyuan Liu, Xinwang Liu*, Yuexiang Yang, Qing Liao, Yuanqing Xia: Contrastive Multi-view Kernel Learning, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2023, 45(8), 9552-9566. (CCF Rank A)
19. Chang Tang, Xinwang Liu*, Xiao Zheng, Wanqing Li, Jian Xiong, Lizhe Wang, Albert Zomaya, Antonella Longo: DeFusionNET: Defocus Blur Detection via Recurrently Fusing and Refining Discriminative Multi-Scale Deep Features, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2022, 44(2), 955-968. (CCF Rank A)
20. Siqi Wang, Yijie Zeng, Guang Yu, Zhen Cheng, Xinwang Liu*, Sihang Zhou, En Zhu, Marius Kloft, Jianping Yin, Qing Liao: E3Outlier: A Self-supervised Framework for Unsupervised Deep Outlier Detection, [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2022, 45(3), 2952-2969. (CCF Rank A)
21. Nan Yin, Li Shen, Mengzhu Wang, Xinwang Liu, Chong Chen, Xian-Sheng Hua, Xiao Luo: DREAM: A Dual Variational Framework for Unsupervised Graph Domain Adaptation. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
22. Songyuan Yang, Weijiang Yu, Wenjing Yang, Xinwang Liu, Huibin Tan, Long Lan, Nong Xiao: WildVideo: Benchmarking LMMs for Understanding Video-Language Interaction. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
23. Junjie Huang, Tianrui Liu, Zihan Chen, Xinwang Liu, Meng Wang, Pier Luigi Dragotti: A Lightweight Deep Exclusion Unfolding Network for Single Image Reflection Removal. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2025. (CCF Rank A)
24. Yongshun Gong, Zhibin Li, Wei Liu, Xiankai Lu, Xinwang Liu, Ivor W. Tsang, and Yilong Yin: Missingness-pattern-adaptive Learning with Incomplete Data. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2023, 45(9): 11053-11066. (CCF Rank A)
25. Haocong Rao, Siqi Wang, Xiping Hu, Mingkui Tan, Yi Guo, Jun Cheng, Bin Hu, Xinwang Liu: A Self-Supervised Gait Encoding Approach with Locality

- Awareness for 3D Skeleton Based Person Re-Identification. [IEEE Transactions on Pattern Analysis and Machine Intelligence \(TPAMI\)](#), 2022, 44(10): 6649-6666. (CCF Rank A)
26. Xiaoshu Chen, Sihang Zhou, Ke Liang, Jiafei Wu, Xinwang Liu*, Dongsheng Li, KaiLu: Thinking on Context: Inductive Relation Prediction Guided by the Reasoning Ability of Large Language Models. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025. (CCF Rank A)
27. Qi Liu, Suyuan Liu, Xinwang Liu, Jianhua Dai: Latent Semantics and Anchor Graph Multi-layer Learning for Multi-view Unsupervised Feature Selection. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025. (CCF Rank A)
28. Liang Li, Yuangang Pan, Junpu Zhang, Pei Zhang, Jie Liu, Xinwang Liu*, Kenli Li, Ivor W. Tsang, Keqin Li: JetBGC: Joint Robust Embedding and Structural Fusion Bipartite Graph Clustering. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(9): 5346-5359. (CCF Rank A)
29. Renxiang Guan, Tianrui Liu, Wenxuan Tu, Chang Tang, Wenhan Luo, Xinwang Liu*: Sampling Enhanced Contrastive Multi-View Remote Sensing Data Clustering with Long-Short Range Information Mining. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(9): 5598-5612. (CCF Rank A)
30. Xihong Yang, Yiqi Wang, Jin Chen, Wenqi Fan, Xiangyu Zhao, Xinwang Liu*, En Zhu, Defu Lian: Dual Test-time Training for Out-of-distribution Recommender System. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(6): 3312-3326. (CCF Rank A)
31. Siwei Wang, Qing Liao, Xinwang Liu, Yi Wen, En Zhu, Kunlun He: Scalable Multi-View Graph Clustering with Cross-View Corresponding Anchor Alignment. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(5): 2932-2945. (CCF Rank A)
32. Tuanfei Zhu, Xingchen Hu, Xinwang Liu, En Zhu, Xinzhong Zhu, Huiying Xu: Dynamic Ensemble Framework for Imbalanced Data Classification. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(5): 2456-2471. (CCF Rank A)
33. Hao Yu, Ke Liang, Dayu Hu, Wenxuan Tu, Chuan Ma, Sihang Zhou, Xinwang Liu*: GZ00: Black-box Node Injection Attack on Graph Neural Networks via Zeroth-order Optimization. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2025, 37(1): 319-333. (CCF Rank A)
34. Lingyuan Meng, Ke Liang, Hao Yu, Sihang Zhou, Meng Liu, Xinwang Liu*: FedEAN: Entity-Aware Adversarial Negative Sampling for Federated Knowledge Graph Reasoning. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(11): 8206-8219. (CCF Rank A)
35. Jun Wang, Zhenglai Li, Chang Tang, Suyuan Liu, Xinhang Wan, Xinwang Liu*: Multiple Kernel Clustering with Adaptive Multi-scale Partition

- Selection. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(11): 6641-6652. (CCF Rank A)
36. Liang Li, Yuangang Pan, Jie Liu, Yue Liu, Xinwang Liu*, Kenli Li, Ivor W. Tsang, and Keqin Li: BGAE: Auto-encoding Multi-view Bipartite Graph Clustering. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(8): 3682-3696. (CCF Rank A)
37. Suyuan Liu, Qing Liao, Siwei Wang, Xinwang Liu*, En Zhu: Robust and Consistent Anchor Graph Learning for Multi-view Clustering. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(8): 4207-4219. (CCF Rank A)
38. Wenxuan Tu, Qing Liao*, Sihang Zhou, Xin Peng, Chuan Ma, Zhe Liu, Xinwang Liu*, Zhiping Cai, Kunlun He*: RARE: Robust Masked Graph Autoencoder. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(10): 5340-5353. (CCF Rank A)
39. Ke Liang, Yue Liu, Sihang Zhou, Wenxuan Tu, Yi Wen, Xihong Yang, Xiangjun Dong, Xinwang Liu*: Knowledge Graph Contrastive Learning based on Relation-Symmetrical Structure. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2024, 36(1): 226-238. (CCF Rank A)
40. Liang Li, Junpu Zhang, Siwei Wang, Xinwang Liu*, Kenli Li, Keqin Li: Multi-view Bipartite Graph Clustering with Coupled Noisy Feature Filter. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2023, 35(12): 12842-12854. (CCF Rank A)
41. Chang Tang, Zhenglai Li, Jun Wang, Xinwang Liu*, Wei Zhang*, En Zhu: Unified One-step Multi-view Spectral Clustering. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2023, 35(6): 6449-6460. (CCF Rank A)
42. Tuanfei Zhu, Xinwang Liu*, En Zhu: Oversampling with Reliably Expanding Minority Class Regions for Imbalanced Data Learning. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2023, 35(6): 6167-6181. (CCF Rank A)
43. Chang Tang, Xiao Zheng, Xinwang Liu*, Jing Zhang, Jian Xiong, Lizhe Wang*: Cross-view Locality Preserved Diversity and Consensus Learning for Multi-view Unsupervised Feature Selection. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2022, 34(10): 4705-4716. (CCF Rank A)
44. Pei Zhang, Xinwang Liu*, Sihang Zhou, Wentao Zhao, En Zhu, Zhiping Cai: Consensus One-step Multi-view Subspace Clustering. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2022, 34(10): 4676-4689. (CCF Rank A)
45. Weixuan Liang, Sihang Zhou, Jian Xiong, Xinwang Liu*, Siwei Wang, En Zhu, Zhiping Cai, Xin Xu: Multi-View Spectral Clustering with High-Order Optimal Neighborhood Laplacian Matrix. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2022, 34(7): 3418-3430. (CCF Rank A)
46. Jiyuan Liu, Xinwang Liu*, Jian Xiong, Qing Liao, Sihang Zhou, Siwei Wang,

- Yuxiang Yang*: Optimal Neighborhood Multiple Kernel Clustering with Adaptive Local Kernels. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2022, 34(6): 2872-2885. (CCF Rank A)
47. Xifeng Guo, Xinwang Liu*, En Zhu*, Xinzhong Zhu, Miaomiao Li, Xin Xu, Jianping Yin*: Adaptive Self-paced Deep Clustering with Data Augmentation. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2020, 32(9): 1680-1693. (CCF Rank A)
48. Chang Tang, Xinwang Liu*, Miaomiao Li, Pichao Wang, Lizhe Wang: Feature Selective Projection with Low-Rank Embedding and Dual Laplacian Regularization. [IEEE Transactions on Knowledge and Data Engineering \(TKDE\)](#), 2020, 32(9): 1747-1760. (CCF Rank A)
49. Xinwang Liu*, Li Liu, Qing Liao, Chang Tang, Siwei Wang, Wenxuan Tu, Jiyuan Liu, Yi Zhang, En Zhu: One Pass Late Fusion Multi-view Clustering. [International Conference on Machine Learning \(ICML\)](#), 2021. (CCF Rank A)
50. Shengju Yu, Zhibin Dong, Siwei Wang, Suyuan Liu, Ke Liang, Xinwang Liu*, Yue Liu, Yi Zhang: From Spectrum-free towards Baseline-view-free: Double-track Proximity Driven Multi-view Clustering. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
51. Shengju Yu, Siwei Wang, Xinwang Liu*, Yiu-ming Cheung, En Zhu: Bifurcate then Alienate: Incomplete Multi-view Clustering via Coupled Distribution Learning with Linear Overhead. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
52. Weixuan Liang, Xinwang Liu*, Ke Liang, Jiyuan Liu, En Zhu: COKE: Core Kernel for More Efficient Approximation of Kernel Weights in Multiple Kernel Clustering. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
53. Yaowen Hu, Wenxuan Tu, Yue Liu, Xinhang Wan, Junyi Yan, Taichun Zhou, Xinwang Liu*: Scalable Attribute-Missing Graph Clustering via Neighborhood Differentiation. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
54. Xihong Yang, Siwei Wang, Fangdi Wang, Jiaqi Jin, Suyuan Liu, Yue Liu, En Zhu, Xinwang Liu*, Yueming Jin: Automatically Identify and Rectify: Robust Deep Contrastive Multi-view Clustering in Noisy Scenarios. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
55. Suyuan Liu, Hao Yu, Hao Tan, Ke Liang, Siwei Wang, Shengju Yu, En Zhu, Xinwang Liu*: Efficient Federated Incomplete Multi-View Clustering. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
56. Hao Yu, Weixuan Liang, Ke Liang, Suyuan Liu, Meng Liu, Xinwang Liu*: On the Adversarial Robustness of Multi-Kernel Clustering. [International Conference on Machine Learning \(ICML\)](#), 2025. (CCF Rank A)
57. Fangdi Wang, Siwei Wang, Jiaqi Jin, jingtao Hu, Suyuan Liu, Xihong Yang, Xinwang Liu*, En Zhu: Evaluate then cooperate: Shapley-based View

- Cooperation Enhancement for Multi-view Clustering. [Neural Information Processing Systems \(NeurIPS\)](#), 2024. (CCF Rank A)
58. Yue Liu, Shihao Zhu, Jun Xia, Yingwei Ma, Jian Ma, Wenliang Zhong, **Xinwang Liu***, Shengju Yu, Kejun Zhang: End-to-end Learnable Clustering for Intent Learning in Recommendation. [Neural Information Processing Systems \(NeurIPS\)](#), 2024. (CCF Rank A)
59. Suyuan Liu, Siwei Wang, Ke Liang, Junpu Zhang, Zhibin Dong, Tianrui Liu, En Zhu, **Xinwang Liu***, Kunlun He: Alleviate Anchor-Shift: Explore Blind Spots with Cross-View Reconstruction for Incomplete Multi-View Clustering. [Neural Information Processing Systems \(NeurIPS\)](#), 2024. (CCF Rank A)
60. Ke Liang, Yue Liu, Hao Liu, Lingyuan Meng, Suyuan Liu, Siwei Wang, Sihang Zhou, **Xinwang Liu***: Clustering then Propagation: Select Better Anchors for Knowledge Graph Embedding. [Neural Information Processing Systems \(NeurIPS\)](#), 2024. (CCF Rank A)
61. Xinhang Wan, Jiyuan Liu, **Xinwang Liu***, Yi Wen, Hao Yu, Siwei Wang, Shengju Yu, Tianjiao Wan, Jun Wang, En Zhu: Decouple then Classify: A Dynamic Multi-view Labeling Strategy with Shared and Specific Information. [International Conference on Machine Learning \(ICML\)](#), 2024. (CCF Rank A)
62. Shengju Yu, Zhibin Dong, Siwei Wang, Xinhang Wan, Yue Liu, Weixuan Liang, Pei Zhang, Wenxuan Tu, **Xinwang Liu***: Towards Resource-friendly, Extensible and Stable Incomplete Multi-view Clustering. [International Conference on Machine Learning \(ICML\)](#), 2024. (CCF Rank A)
63. Weixuan Liang, **Xinwang Liu***, En Zhu, Shengju Yu, Huiying Xu, Xinzhong Zhu: Scalable Multiple Kernel Clustering: Learning Clustering Structure from Expectation. [International Conference on Machine Learning \(ICML\)](#), 2024. (CCF Rank A)
64. Weixuan Liang, **Xinwang Liu***, Yong Liu, Chuan Ma, Yunping Zhao, Zhe Liu, En Zhu: Consistency of Multiple Kernel Clustering. [International Conference on Machine Learning \(ICML\)](#), 2023. (CCF Rank A)
65. Yue Liu, Ke Liang, Jun Xia, Sihang Zhou, Xihong Yang, **Xinwang Liu***, Stan Z. Li: Dink-Net: Neural Clustering on Large Graphs. [International Conference on Machine Learning \(ICML\)](#), 2023. (CCF Rank A)
66. Siwei Wang, **Xinwang Liu***, Suyuan Liu, Jiaqi Jin, Wenxuan Tu, Xinzhong Zhu, En Zhu: Align then Fusion: Generalized Large-scale Multi-view Clustering with Anchor Matching Correspondences. [Neural Information Processing Systems \(NeurIPS\)](#), 2022. (CCF Rank A)
67. Weixuan Liang, **Xinwang Liu***, Yong Liu, Sihang Zhou, Jun-Jie Huang, Siwei Wang, Jiyuan Liu, Yi Zhang, En Zhu: Stability and Generalization of Kernel Clustering: from Single Kernel to Multiple Kernel. [Neural Information Processing Systems \(NeurIPS\)](#), 2022. (CCF Rank A)
68. Siqi Wang, Yijie Zeng, **Xinwang Liu***, En Zhu, Jianping Yin, Chuanfu Xu, and

Marius Kloft: Effective End-to-end Unsupervised Outlier Detection via Inlier Priority of Discriminative Network. [Neural Information Processing Systems \(NeurIPS\)](#), 2019. (CCF Rank A)

学术奖励

1. 聚类分析的理论、方法及应用, [吴文俊人工智能自然科学一等奖](#), 2024 (排 1)
2. 数据和知识驱动的智慧诊疗关键技术及产业化应用, [北京市科技进步一等奖](#), 2024 (排 2)
3. 复杂三维数据的无监督结构理解与高质量自动建模理论与方法, [湖南省自然科学一等奖](#), 2021 (排 2)
4. 生物特征与三维形状的获取分析学习与识别方法研究, [湖南省自然科学一等奖](#), 2014 (排 6)
5. 复杂多视图数据的高效表示与融合方法, [中国图象图形学学会自然科学二等奖](#), 2024 (排 2)
6. 复杂数据学习与特征选择计算方法研究及其应用, [湖南省计算机学会自然科学一等奖](#), 2022 (排 2)

主持项目

1. 聚类分析的理论、方法及应用, [国家自然科学基金委杰出青年科学基金项目](#), 2024-01-01 至 2028-12-31, 主持
2. 机器学习, [国家自然科学基金委优秀青年科学基金项目](#), 2020-01-01 至 2022-12-31, 主持
3. 复杂条件下多模态数据学习的基础理论与方法研究, [国家科技部科技创新2030-“新一代人工智能”重大项目](#), 2020-11 至 2023-11, 主持
4. 多模态大模型生成内容全链路对齐与溯源, [国家自然科学基金委重点专项](#), 2025-01-01 至 2026-12-31, 主持
5. 新型多视图聚类算法研究, [国家自然科学基金委面上项目](#), 2023-01-01 至 2026-12-31, 主持
6. 大规模低质量多视图聚类算法及其应用研究, [国家自然科学基金委面上项目](#), 2018-01-01 至 2021-12-31, 主持

学术服务

1. 担任国际期刊[IEEE TNNLS](#)、[IEEE TCYB](#)的副主编
2. 担任国际期刊[Information Fusion](#)的编委
3. 担任国际会议[ICML](#)、[AAAI](#)的领域主席
4. 担任国际会议[NeurIPS](#)、[IJCAI](#)的资深程序委员会委员