

Curriculum Vitae

Yuheng JIA

Ph.D., Associate Professor

Pattern Learning and Mining(PALM) Lab

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Research Interests

Machine Learning: Theory and Applications, Weakly Supervised Learning, Clustering, Uncertainty Modeling, Parameter-Efficient Fine-Tuning, Efficient Inference, LLM Applications, Hyperspectral Image Processing, Low-Rank Matrix/Tensor Representation, Graph Signal Learning/Representation.

Education and Work Experiences

- 2020.11 ~ now, Associate Professor, **Southeast University**, Nanjing, China.
- 2019.2 ~ 2020.10, Postdoctoral Fellow, **CityU**, Hong Kong, Advisor: Prof. [Sam Kwong](#) and Dr. [Junhui David Hou](#)
- 2015.9 ~ 2019.2, Ph.D. Computer Science, **CityU**, Hong Kong, Advisor: Prof. [Sam Kwong](#)
- 2018.5 ~ 2018.7, Visiting Student Researcher, School of Medicine, **Stanford University**, Palo Alto, USA, Advisor: Prof. [Xuefeng Bruce Ling](#)
- 2012.9 ~ 2015.6, M.Sc., Control Theory and Control Engineering, **Zheng Zhou University**, Zheng Zhou, Advisor: Prof. Jie Wang (GPA ranking: **1/101**)
- 2008.9 ~ 2012.6, B.Eng., Automation, **Zheng Zhou University**, Zheng Zhou, Advisor: Prof. Jie Wang (GPA ranking: **1/38**)

Professional Services

- **Associate Editor**, IEEE Transactions on Vehicular Technology (IEEE TVT)
- **Associate Editor**, Pattern Recognition (PR)
- **Technical Program Chair**, IEEE International Symposium on Machine Learning and Media Computing (MLMC)
- **Area Chair**, ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)
- **Area Chair**, International Conference on Learning Representations (ICLR)
- **Area Chair**, International Conference on Machine Learning (ICML)
- **Area Chair**, Conference on Neural Information Processing Systems (NeurIPS) (Main Track and Position Paper Track)
- **Area Chair**, British Machine Vision Conference (BMVC)
- **Senior Program Committee**, International Joint Conference on Artificial Intelligence (IJCAI)

Journal Paper (# indicates corresponding author, * indicates co-first author)

- 1) **Yuheng Jia**, Qirui Lin, Hua Li, Yutong Li, Sam Kwong, Runmin Cong, ViT-UWA: Vision Transformer Underwater-Adapter for Dense Predictions Beneath the Water Surface, IEEE Transactions on Image Processing, 2026.
- 2) Wenlong Lyu, **Yuheng Jia**[#], Hui Liu, and Junhui Hou, Graph-based Clustering Revisited: A Relaxation of Kernel k-Means Perspective, Journal of Machine Learning Research, 2026.

- 3) Ran Wang, Meng Hu, Xinlei Zhou, **Yuheng Jia**[#], [DPTStrip: Adversarially Robust Learning with Distance-Aware Point-to-Set Triplet Loss](#), Pattern Recognition, 2026.
- 4) Jianhan Qi, **Yuheng Jia**[#], Hui Liu, Junhui Hou, [Structural-Spectral Graph Convolution with Evidential Edge Learning for Hyperspectral Image Clustering](#), IEEE Transactions on Image Processing, 2025.
- 5) Yang He, Huan Liu, **Yuheng Jia**, Chengchuan An, Weihua Zhang, Jingxin Xia, [Adaptive and robust low-rank tensor completion for missing and corrupted traffic data recovery](#), Journal of Intelligent Transportation Systems.
- 6) Xu Zhang, **Yuheng Jia**[#], Mofei Song, Ran Wang, [Similarity and Dissimilarity Guided Co-association Matrix Construction for Ensemble Clustering](#), IEEE Transactions on Knowledge and Data Engineering, 2025.
- 7) Zhiqiang Kou, Haoyuan Xuan, Jingyu Zhu, Hailin Wang, Ming-kun Xie, Changwei Wang, Jing Wang, **Yuheng Jia**[#], Xin Geng, [Tail-Aware Reconstruction of Incomplete Label Distributions with Low-Rank and Sparse Modeling](#), IEEE Transactions on Circuits and Systems for Video Technology, 2025.
- 8) Qirui Lin, Hua Li, **Yuheng Jia**[#], [Large Model Guided Semantic Segment Anything for Underwater Consumer Electronics](#), IEEE Transactions on Consumer Electronics, 2025.
- 9) Bo Han, **Yuheng Jia**[#], Hui Liu, Junhui Hou, [Irregular Tensor Low-Rank Representation for Hyperspectral Image Representation](#), IEEE Transactions on Image Processing, 2025.
- 10) Jing Wang, Zhiqiang Kou, **Yuheng Jia**, Jianhui Lv, and Xin Geng. [Label Enhancement by Fusing Manifold Fusion of Feature and Label Spaces](#). Pattern Recognition, 2025
- 11) Fengmin Su, Yuwen Deng, Chi Zhang, **Yuheng Jia**, Qinran Hu, Wei Wang, Jie Li, [From Point Cloud to Energy Model: Constructing High-resolution Urban Building Model for Energy Simulation and Evaluation Using UAV Oblique Imagery](#), Journal of Building Engineering.
- 12) Zhiqiang Kou, Jing Wnag, **Yuheng Jia**, Xin Geng, [Progressive Label Enhancement](#), Pattern Recognition, 2025, 160: 111172
- 13) **Yuheng Jia**, Jia-Nan Li, Wenhui Wu, Ran Wang, [Semi-supervised Symmetric Non-negative Matrix Factorization with Low-Rank Tensor Representation](#), IEEE Transactions on Circuits and Systems for Video Technology, 2025, 35(2): 1534-1547.
- 14) Zhixin Li, Bo Han, **Yuheng Jia**[#], [Discriminative Low-Rank Representation for HSI Clustering](#), IEEE Geoscience and Remote Sensing Letters, 2024, 21: 1-5.
- 15) Xinyin Zhang, Ran Wang, Shuyue Chen, **Yuheng Jia**, Debby D. Wang, [AME-LSIFT: Attention-Aware Multi-Label Ensemble with Label Subset-Specific Features](#), IEEE Transactions on Transactions on Knowledge and Data Engineering, 2024, 36(12): 7627-7642.
- 16) Jing Wang, Zhiqiang Kou, **Yuheng Jia**, Jianhui Lv, Xin Geng, [Label Distribution Learning by Exploiting Fuzzy Label Correlation](#), IEEE Transactions on Neural Networks and Learning Systems, 2025, 36(5): 8979-8990.
- 17) Jianhan Qi, **Yuheng Jia**[#], Hui Liu, Junhui Hou, [Superpixel Graph Contrastive Clustering with Semantic-Invariant Augmentations for Hyperspectral Images](#), IEEE Transactions on Circuits and Systems for Video Technology, 2024, 34(11): 11360-11372.
- 18) Yang He, **Yuheng Jia**, Yunqing Jia, Chengchuan An, Zhenbo Lu, Jingxin Xia, [An Integrated Intra-view and Inter-view Framework for Multiple Traffic Variable Data Simultaneous Recovery](#), IEEE Transactions on Intelligent Transportation Systems.
- 19) Yang He, Chengchuan An, **Yuheng Jia**, Jiachao Liu, Zhenbo Lu, Jingxin Xia, [Efficient and Robust Freeway Traffic Speed Estimation under Oblique Grid using Vehicle Trajectory Data](#), IEEE Transactions on Intelligent Transportation Systems, 2024, 25(11): 16193-16206.
- 20) Zhiqiang Kou, Jing Wang, **Yuheng Jia**[#], Xin Geng, [Inaccurate Label Distribution Learning](#), IEEE Transactions on Circuits and Systems for Video Technology.
- 21) Shujun Yang, **Yuheng Jia**, Yao Ding, Xin Wu, Danfang Hong, [Unlabeled Data Guided Partial Label Learning for Hyperspectral Image Classification](#), IEEE Geoscience and Remote Sensing Letters,

- 2024, in press.
- 22) Zhihao Peng, Hui Liu, **Yuheng Jia**, Junhui Hou, [EGRC-Net: Embedding-induced Graph Refinement Clustering Network](#), IEEE Transactions on Image Processing.
 - 23) Chongjie Si, **Yuheng Jia**[#], Ran Wang, Min-Ling Zhang, Yanghe Feng, Chongxiao Qu, [Multi-label Classification with High-rank and High-order Label Correlations](#), IEEE Transactions on Knowledge and Data Engineering, 2023, in press.
 - 24) Zhiqiang Kou, Jing Wang, **Yuheng Jia**[#], Biao Liu, Xin Geng, [Instance-Dependent Inaccurate Label Distribution Learning](#), IEEE Transactions on Neural Networks and Learning Systems, 2023, in press.
 - 25) Liyang Hu, **Yuheng Jia**[#], Weijie Chen, Longhui Wen, Zhirui Ye, [A Flexible and Robust Tensor Completion Approach for Traffic Data Recovery with Low-rankness](#), IEEE Transactions on Intelligent Transportation Systems, 2023, in press.
 - 26) **Yuheng Jia**; Sirui Tao; Ran Wang; Yongheng Wang, [Ensemble Clustering via Co-Association Matrix Self-Enhancement](#), IEEE Transactions on Neural Networks and Learning Systems, 2023, in press.
 - 27) **Yuheng Jia**; Guanxing Lu; Hui Liu; Junhuif Hou, [Semi-Supervised Subspace Clustering via Tensor Low-Rank Representation](#), IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33(7): 3455-3461.
 - 28) Zhihao Peng, Hui Liu, **Yuheng Jia**[#], Junhui Hou, [Deep Attention-guided Graph Clustering with Dual Self-supervision](#), IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33(7): 3296-3307.
 - 29) Mingyuan Xu, Haiyun Guo, **Yuheng Jia**[#], Zhitao Dai, Jinqiao Wang, [Pseudo Label Rectification With Joint Camera Shift Adaptation and Outlier Progressive Recycling for Unsupervised Person Re-Identification](#), IEEE Transactions on Intelligent Transportation Systems, 2023, 24(3): 3395-3406.
 - 30) Dengyong Zhang, Taowei Wang, Shujun Yang, **Yuheng Jia**[#], Feng Li, [Spectral Reweighting and Spectral Similarity Weighting for Sparse Hyperspectral Unmixing](#), *IEEE Geoscience and Remote Sensing Letters*, 2022, 19: 1-5.
 - 31) Zhihao Peng, Hui Liu, **Yuheng Jia**[#], Junhui Hou, [Adaptive Attribute and Structure Subspace Clustering Network](#), IEEE Transactions on Image Processing, 2022, 31: 3430-3439.
 - 32) Shujun Yang, Yu Zhang, **Yuheng Jia**, Weijia Zhang, [Local Low-Rank Approximation With Superpixel-Guided Locality Preserving Graph for Hyperspectral Image Classification](#), IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15: 7741-7754.
 - 33) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, Qingfu Zhang, [Self-supervised Symmetric Non-negative Matrix Factorization](#), IEEE Transactions on Circuits and Systems for Video Technology, 2021, 32(7): 4526 - 4537.
 - 34) Shujun Yang, Junhui Hou, **Yuheng Jia**[#], Shaohui Mei, Qian Du, [Superpixel-Induced Discriminative Low-rank Representation of Hyperspectral Image](#), IEEE Transactions on Image Processing, 2021, 30: 8823-8835.
 - 35) Jingchao Cao, Ran Wang, **Yuheng Jia**[#], Xinfeng Zhang, Shiqi Wang, Sam Kwong, [No-Reference Image Quality Assessment for Contrast-Changed Images via a Semi-supervised Robust PCA model](#), Information Sciences, 2021, 574: 640-652.
 - 36) Hui Liu; **Yuheng Jia**^{#*}; Junhui Hou; Qingfu Zhang, [Global-Local Balanced Low-Rank Approximation of Hyperspectral Images for Classification](#), IEEE Transactions on Circuits and Systems for Video Technology, 2021, 32(4): 2013-2024.
 - 37) Zhihao Peng, **Yuheng Jia**[#], Hui Liu, Junhui Hou, Qingfu Zhang, [Deep Maximum-Entropy Subspace Clustering](#), IEEE Transactions on Circuits and Systems for Video Technology, 2021, 32(4): 2199-2210.
 - 38) Hui Liu; **Yuheng Jia**^{#*}; Junhui Hou; Qingfu Zhang, [Learning Low-rank Graph with Enhanced Supervision](#), IEEE Transactions on Circuits and Systems for Video Technology, 2021, 32(4): 2501-2506.
 - 39) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, Qingfu zhang, [Multi-View Spectral Clustering Tailored Tensor Low-Rank Representation](#), IEEE Transactions on Circuits and Systems for Video

- Technology, 2021, 31(12): 4784-4797.
- 40) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, Qingfu Zhang, [Semi-supervised Affinity Matrix Learning via Dual-channel Information Recovery](#)", IEEE Transactions on Cybernetics, 2022, 52(8): 7919-7930.
 - 41) Hua Li, **Yuheng Jia**[#], Runmin Cong, Wenhui Wu, Sam Kwong, Chuanbo Chen, [Superpixel Segmentation via Locality-Constrained Subspace Clustering](#), IEEE Transactions on Industrial Informatics, 2020, 17(11): 7501-7512.
 - 42) Wenhui Wu, **Yuheng Jia**, Shiqi Wang, Ran Wang, Hongfei Fan, Sam Kwong, [Positive and Negative Label-Driven Nonnegative Matrix Factorization](#), IEEE Transactions on Circuits and Systems for Video Technology, 2020, 31(7): 2698-2710.
 - 43) Zhihao Peng, **Yuheng Jia**, Junhui Hou, [Joint Transfer Learning via Intra-domain Differentiation and Inter-domain Correlation](#), IEEE Signal Processing Letters, 2020, 17: 1720-1724.
 - 44) Ran Wang, Sam Kwong, Xu Wang, **Yuheng Jia**, [Active k-Labelsets Ensemble for Multi-label Classification](#), Pattern Recognition, 2021, 109: 107583.
 - 45) **Yuheng Jia**, Wenhui Wu, Ran Wang, Junhui Hou, Sam Kwong, [Joint Optimization for Pairwise Constraint Propagation](#), IEEE Transactions on Neural Networks and Learning Systems, 2020, 32(7): 3168-3180.
 - 46) **Yuheng Jia**, Junhui Hou, Sam Kwong, [Constrained Clustering with Dissimilarity Propagation Guided Graph-Laplacian PCA](#), IEEE Transactions on Neural Networks and Learning Systems, 2020, 32(9): 3985-3997.
 - 47) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, [Clustering-aware Graph Construction: A Joint Learning Perspective](#), IEEE Transactions Signal and Information Processing over Networks, 2020, 6: 357-370.
 - 48) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, [Semi-supervised Adaptive Symmetric Nonnegative Matrix Factorization](#), IEEE Transactions on Cybernetics, 2021, 51(5): 2550-2562.
 - 49) Shujun Yang, Junhui Hou, **Yuheng Jia**, Shaohui Mei, Qian Du, [Hyperspectral Image Classification with Incremental Sparse Representation](#), IEEE Geoscience and Remote Sensing Letters (GRSL), 2020, 17(9): 1598-1602.
 - 50) **Yuheng Jia**, Hui Liu, Junhui Hou, Sam Kwong, [Pairwise Constraint Propagation with Dual Adversarial Manifold Regularization](#), IEEE Transactions on Neural Networks and Learning Systems, 2020, 31(12): 5575-5587.
 - 51) **Yuheng Jia**, Sam Kwong, Junhui Hou, Wenhui Wu, [Semi-Supervised Non-Negative Matrix Factorization with Dissimilarity and Similarity Regularization](#), IEEE Transactions on Neural Networks and Learning Systems, 2020, 31(7): 2510-2521.
 - 52) **Yuheng Jia**, Sam Kwong, Junhui Hou, [Semi-Supervised Spectral Clustering with Structured Sparsity Regularization](#), IEEE Signal Processing Letters, 2018, 25(3): 403-407.
 - 53) **Yuheng Jia**, Sam Kwong, Wenhui Wu, Ran Wang, Wei Gao, [Sparse Bayesian Learning Based Kernel Poisson Regression](#), IEEE Transactions on Cybernetics, 2019, 49(1): 56-68.
 - 54) **Yuheng Jia**, Sam Kwong, Ran Wang, [Applying Exponential Family Distribution to Generalized Extreme Learning Machine](#), IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50(5): 1794-1804.
 - 55) Wenhui Wu, **Yuheng Jia**, Sam Kwong, Junhui Hou, [Pairwise Constraint Propagation Induced Symmetric Nonnegative Matrix Factorization](#), IEEE Transactions on Neural Networks and Learning Systems, 2018, 29(12): 6348-6361.
 - 56) Wei Gao, Sam Kwong, **Yuheng Jia**, [Joint Machine Learning and Game Theory for Rate Control in High Efficiency Video Coding](#), IEEE Transactions on Image Processing, 2017, 26(12): 6074-6089.
 - 57) Jiao Zhang, Sam Kwong, **Yuheng Jia**, Ka-Chun Wong, [NSSRF: Global Network Similarity Search with Subgraph Signatures and its Applications](#), Bioinformatics, 2017, 33(11): 1696-1702.
 - 58) Hua Li, Sam Kwong, Chuanbo Chen, **Yuheng Jia**, Runmin Cong, [Superpixel Segmentation Based on Square-wise Asymmetric Partition and Structural Approximation](#), IEEE Transactions on Multimedia,

- 2019, 21(10): 2625-2637.
- 59) Wenhui Wu, Sam Kwong, Yu Zhou, **Yuheng Jia**, Wei Gao, [Nonnegative Matrix Factorization with Mixed Hyper-graph Regularization for Community Detection](#), **Information Sciences**, 2018, 435: 263-281.
 - 60) Wenhui Wu, Sam Kwong, Junhui Hou, **Yuheng Jia**, Horace Ho Shing Ip, [Simultaneous Dimensionality Reduction and Classification via Dual Embedding Regularized Nonnegative Matrix Factorization](#), **IEEE Transactions on Image Processing**, 2019, 28(8): 3836-3847.
 - 61) Shujun Yang, Junhui Hou, **Yuheng Jia**, Shaohui Mei, Qian Du, [Pseudo-Label Guided Kernel Learning for Hyper-spectral Image Classification](#), **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**, 2019, 12(3): 1000-1011.
 - 62) Jie Wang, Liangjian Cai, Jingzhu Peng, **Yuheng Jia**, [A Novel Multiple Instance Learning Method Based on Extreme Learning Machine](#), **Computational Intelligence and Neuroscience**, 2015, 2015: 3.
 - 63) Jie Wang, **Yuheng Jia**, Xin Zhao. [Tobacco Leaf Maturity Classification Based on Sparse Auto-encoder](#), **Tobacco Science & Technology**, 2014, 9, 18-22, in Chinese.
 - 64) Jie Wang, **Yuheng Jia**, [A Classification Method of Extreme Learning Machine Based on AdaBoost](#), **Journal of Zhengzhou University (Natural Science Edition)**, 2014, 2, 11, in Chinese.

Conference Paper (# indicates corresponding author, * indicates co-first author)

- 1) Ao Sun, Xiaoyu Wang, Zhe Tan, Yu Li, Zhu Jiachen, **Yuheng Jia**[#], Shu Su, [CuMA: Aligning LLMs with Sparse Cultural Values via Demographic-Aware Mixture of Adapters](#), The 64th Annual Meeting of the Association for Computational Linguistics (ACL), San Diego, California, 2026.
- 2) Zhenyu Lu, **Yuheng Jia**, Wei You, Hao Chen, [Discovering Attention Head Interactions in Vision Transformers](#), **Conference on Computer Vision and Pattern Recognition (CVPR Findings)**, Denver CO, 2026.
- 3) Zhiqiang Kou, Junxiang Wu, Wenke Huang, Wenwen He, Ming-Kun Xie, Changwei Wang, **Yuheng Jia**[#], Di Jiang, Yang Liu, Xin Geng, Qiang Yang, [FedHarmony: Harmonizing Heterogeneous Label Correlations in Federated Multi-Label Learning](#), **Conference on Computer Vision and Pattern Recognition (CVPR)**, Denver CO, 2026.
- 4) Muqing Liu, Chongjie Si, **Yuheng Jia**[#], [FlexLoRA: Entropy-Guided Flexible Low-Rank Adaptation](#), **International Conference on Learning Representations (ICLR)**, Rio de Janeiro, Brazil, April 23-27, 2026.
- 5) Zhixin Li, **Yuheng Jia**[#], Guanliang Chen, Hui LIU, Junhui Hou, [Mini-cluster Guided Long-tailed Deep Clustering](#), **International Conference on Learning Representations (ICLR)**, Rio de Janeiro, Brazil, April 23-27, 2026.
- 6) Zhengxing Jiao, Yaxin Hou, Jun Ma, Yuhang Li, Ding Ding, **Yuheng Jia**[#], Hui LIU, Junhui Hou [Samples Are Not Equal: A Sample Selection Approach for Deep Clustering](#), **International Conference on Learning Representations (ICLR)**, Rio de Janeiro, Brazil, April 23-27, 2026.
- 7) Xinyue Wang, **Yuheng Jia**[#], Hui LIU, Junhui Hou, [ESMC: MLLM-Based Embedding Selection for Explainable Multiple Clustering](#), **The 40th Annual AAAI Conference on Artificial Intelligence (AAAI)**, 2026.
- 8) Bo Han, Zhuoming Li, Xiaoyu Wang, Yaxin Hou, Hui LIU, Junhui Hou, **Yuheng Jia**[#], [DiCaP: Distribution-Calibrated Pseudo-labeling for Semi-Supervised Multi-Label Learning](#), **The 40th Annual AAAI Conference on Artificial Intelligence (AAAI)**, 2026.
- 9) Jiecheng Jiang, Jiawei Tang, Jiahao Jiang, Hui LIU, Junhui Hou, **Yuheng Jia**[#], [Towards Better IncomLDL: We Are Unaware of Hidden Labels in Advance](#), **The 40th Annual AAAI Conference on Artificial Intelligence (AAAI)**, 2026.
- 10) Hanyang Li, **Yuheng Jia**[#], Hui LIU, Junhui Hou, [You Can Trust Your Clustering Model: A Parameter-free Self-Boosting Plug-in for Deep Clustering](#), **The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS) 2025**.

- 11) Yaxin Hou, Bo Han, **Yuheng Jia**[#], Hui LIU, Junhui Hou, [Keep It on a Leash: Controllable Pseudo-label Generation Towards Realistic Long-Tailed Semi-Supervised Learning](#), The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS) 2025.
- 12) Jueyu Chen, Wantao Wen, Ye qiang Wang, Erliang Lin, Yemin Wang, **Yuheng Jia**[#], [Robust Label Proportions Learning](#), The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS) 2025.
- 13) Zhiqiang Kou, Yucheng Xie, Hailin Wang, Junyang Chen, Jing Wang, Ming-Kun Xie, Shuo Chen, **Yuheng Jia**[#], Tongliang Liu, Xin Geng, [RankMatch: A Novel Approach to Semi-Supervised Label Distribution Learning Leveraging Rank Correlation between Labels](#), The Thirty-Ninth Annual Conference on Neural Information Processing Systems (NeurIPS) 2025.
- 14) Zhenglin Hua, Jinghan He, Zijun Yao, Tianxu Han, Haiyun Guo, **Yuheng Jia**[#], Junfeng Fang, [Steering LVLMS via Sparse Autoencoder for Hallucination Mitigation](#), Empirical Methods in Natural Language Processing 2025 (EMNLP).
- 15) Yuhang Li, Zhuying Li, **Yuheng Jia**[#], [Boosting Class Representation via Semantically Related Instances for Robust Long-Tailed Learning with Noisy Labels](#), 2025 IEEE/CVF International Conference on Computer Vision (ICCV).
- 16) Fuchao Yang, Yongqiang Dong, **Yuheng Jia**[#], [Partial Label Learning Tailored Graph Construction](#), The 2025 IEEE International Symposium on Machine Learning and Media Computing (MLMC).
- 17) Jinghan He, Kuan Zhu, Haiyun Guo, Junfeng Fang, Zhenglin Hua, Yuheng Jia, Ming Tang, Tat-Seng Chua, Jinqiao Wang, [Cracking the Code of Hallucination in LVLMS with Vision-aware Head Divergence](#), The 63rd Annual Meeting of the Association for Computational Linguistics (ACL).
- 18) Zhixin Li, **Yuheng Jia**[#], Hui Liu, Junhui Hou, [Learning from Sample Stability for Deep Clustering](#), International Conference on Machine Learning (ICML), 13th-19th July, Vancouver, 2025.
- 19) Xu Zhang, Haoye Qiu, Weixuan Liang, Hui LIU, Junhui Hou, **Yuheng Jia**[#], [Generalization Performance of Ensemble Clustering: From Theory to Algorithm](#), International Conference on Machine Learning (ICML), 13th-19th July, Vancouver, 2025.
- 20) Yaxin Hou, **Yuheng Jia**[#], [A Square Peg in a Square Hole: Meta-Expert for Long-Tailed Semi-Supervised Learning](#), International Conference on Machine Learning (ICML), 13th-19th July, Vancouver, 2025.
- 21) Jiawei Tang, **Yuheng Jia**[#], [Concentration Distribution Learning from Label Distributions](#), International Conference on Machine Learning (ICML), 13th-19th July, Vancouver, 2025.
- 22) Yutong Xie, Fuchao Yang, **Yuheng Jia**[#], [Partial Label Clustering](#), International Joint Conference on Artificial Intelligence (IJCAI), Montreal, 16th – 22nd August, 2025.
- 23) Zhiqiang kou, Si Qin, Hailin Wang, Ming-Kun Xie, Jing Wang, Shuo Chen, **Yuheng Jia**[#], Tongliang Liu, Masashi Sugiyama, Xin Geng, [Label Distribution Learning with Biased Annotations Assisted by Multi-Label Learning](#), International Joint Conference on Artificial Intelligence (IJCAI), Montreal, 16th – 22nd August, 2025.
- 24) **Yuheng Jia**, Jianhong Cheng, Hui LIU, Junhui Hou, [Towards Calibrated Deep Clustering Network](#), International Conference on Learning Representations (ICLR), Singapore, 2025-04-24 2025-04-28.
- 25) Zhixin Li, **Yuheng Jia**[#], [ConMix: Contrastive Mixup at Representation Level for Long-tailed Deep Clustering](#), International Conference on Learning Representations (ICLR), Singapore, 2025-04-24 2025-04-28.
- 26) Xiaorui Peng, **Yuheng Jia**[#], Fuchao Yang, Ran Wang, Min-Ling Zhang, [Noise Separation guided Candidate Label Reconstruction for Noisy Partial Label Learning](#), International Conference on Learning Representations (ICLR), Singapore, 2025-04-24 2025-04-28.
- 27) Yuhang Li, Zhuying Li, **Yuheng Jia**[#], [Complementary Label Learning with Positive Label Guessing and Negative Label Enhancement](#), International Conference on Learning Representations (ICLR), Singapore, 2025-04-24 2025-04-28.
- 28) Zhuoming Li, **Yuheng Jia**[#], Mi Yu, Zicong Miao, [Calibrated Disambiguation for Partial Multi-Label Learning](#), AAAI Conference on Artificial Intelligence, Philadelphia, Pennsylvania, USA, 2025-02-

25 2025-03-04.

- 29) Fuchao Yang, Jianhong Cheng, Hui LIU, Yongqiang Dong, **Yuheng Jia**[#], Junhui Hou, [Mixed Blessing: Class-Wise Embedding guided Instance-Dependent Partial Label Learning](#), ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Toronto, ON, Canada, 2025-08-03 2025-08-07.
- 30) Ran Wang, Simeng Zeng, Wenhui Wu, **Yuheng Jia**, Wing Yin Ng, Xizhao Wang, [On the Adversarial Robustness of Hierarchical Classification](#), IEEE SMC, 2024.
- 31) Fuchao Yang, **Yuheng Jia**[#], Hui Liu, Yongqiang Dong, Junhui Hou, [Noisy Label Removal for Partial Multi-Label Learning](#), KDD, 2024.
- 32) Jiahao Jiang, **Yuheng Jia**[#], Hui Liu, Junhui Hou, [FairMatch: Promoting Partial Label Learning by Unlabeled Samples](#), KDD, 2024.
- 33) Zhiqiang Kou, Jing Wang, Jiawei Tang, **Yuheng Jia**[#], Boyu Shi, Xin Geng, [Exploiting Multi-Label Correlation in Label Distribution Learning](#), IJCAI, 2024.
- 34) **Yuheng Jia**, Jiawei Tang, Jiahao Jiang, [Label Distribution Learning from Logical Label](#), IJCAI, 2024.
- 35) **Yuheng Jia**, Xiaorui Peng, Ran Wang, Min-Ling Zhang, [Long-tailed Partial Label Learning by Head Classifier and Tail Classifier Cooperation](#), AAAI 2024.
- 36) Yang He, Chengchuan An, **Yuheng Jia**, Jiaochao Liu, Efficient and Robust Freeway Traffic State Estimation under Oblique Grid using Vehicle Trajectory Data, Transportation Research Board Annual Meetingk, 2023.
- 37) Liyang Hu, **Yuheng Jia**, Weijie Chen, Dongjie Liu, Jianke Cheng, Zhirui Ye, When Missingness Meets Anomalies: A Tailored Low-rank Tensor Completion Approach for Traffic Data Recovery; Transportation Research Board Annual Meeting, 2023.
- 38) **Yuheng Jia**, Fuchao Yang, Yongqiang Dong, [Partial Label Learning with Dissimilarity Propagation guided Candidate Label Shrinkage](#), NeurIPS 2023.
- 39) **Yuheng Jia**, Chongjie Si, Min-Ling Zhang, [Complementary Classifier Induced Partial Label Learning](#), 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Long Beach CA USA, August 6 - 10, 2023, 974–983.
- 40) **Yuheng Jia**, Jiahao Jiang, Yongheng Wang, [Semantic Dissimilarity Guided Locality Preserving Projections for Partial Label Dimensionality Reduction](#), 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Long Beach CA USA, August 6 - 10, 2023, 964–973.
- 41) Ran Wang, Jingyu Xiang, Haopeng Ke, **Yuheng Jia**, Debby D. Wang, [Improving the Adversarial Robustness of Deep Neural Networks via Efficient Two Stage Training](#), International Conference on Machine Learning and Cybernetics, Adelaide, Australia, 9-11 July, 2023.
- 42) Zhihao Peng, Hui Liu, **Yuheng Jia**[#], Junhui Hou, [Attention-driven Graph Clustering Network](#), ACM International Conference on Multimedia, Virtual Conference, October 20-24, 2021, 935–943.
- 43) **Yuheng Jia**, Hui Liu, Junhui Hou, Qingfu Zhang, [Clustering Ensemble Meets Low-rank Tensor Approximation](#), AAAI Conference on Artificial Intelligence, Virtual Conference, February 2-9, 2021, 7970-7978.
- 44) Hui Liu, **Yuheng Jia**^{*}; Junhui Hou; Qingfu Zhang, [Imbalance-aware Pairwise Constraint Propagation](#), 27th ACM International Conference on Multimedia, Nice, France, October 21-25, 2019, 1605–1613.
- 45) **Yuheng Jia**, Sam Kwong, Junhui Hou, Wenhui Wu, [Convex Constrained Clustering with Graph-Laplacian PCA](#), IEEE International Conference on Multimedia and Expo, San Diego, USA, July 23-27, 2018, 1-6.
- 46) **Yuheng Jia**, Sam Kwong, Wenhui Wu, Wei Gao, Ran Wang, [Generalized Relevance Vector Machine](#), Intelligent Systems Conference, London, UK, September 7-8, 2017, 638-645.
- 47) Ran Wang, Sam Kwong, **Yuheng Jia**, Zhiqi Huang, Lang Wu, [Mutual Information Based K-Labelsets Ensemble for Multi-Label Classification](#), IEEE International Conference on Fuzzy Systems, Rio de Janeiro, Brazil, July 8-13, 2018, **Best Paper Candidate**.

- 48) Mengyuan Wu, Sam Kwong, **Yuheng Jia**, Ke Li, Qingfu zhang, [Adaptive Weights Generation for Decomposition-based Multi-objective Optimization Using Gaussian Process Regression](#), Proceedings of the Genetic and Evolutionary Computation Conference, ACM, Berlin, July 15-19, 2017.
- 49) Jingchao Cao, **Yuheng Jia**, Sam Kwong, [Complexity and Stability Optimization for ELM Based on Parameter Diversity](#), International Conference on Extreme Learning Machines, Singapore, Dec. 2016.
- 50) Wei Gao, Sam Kwong, Yu Zhou, **Yuheng Jia**, Jia Zhang, Wenhui Wu, [Multiscale Phase Congruency Analysis for Image Edge Visual Saliency Detection](#), International Conference on Machine Learning and Cybernetics, Jeju, South Korea, July 10-13, 2016.

References

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