吕庚育

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■ 教育背景

2022.07-至今	北京工业大学信息学部计算机学院	校聘教授、博导
2018.09-2022.06	北京交通大学计算机与信息技术学院	博士阶段
2016.09-2018.07	北京交通大学计算机与信息技术学院	硕士阶段
2012.09-2016.07	北京联合大学软件工程（实验班）	工学学士

■ 研究方向

机器学习与数据挖掘，主要研究弱监督标注条件下的多标记学习、多视图学习等。

■ 发表论文(累计 **28** 篇：SCI 期刊 **19** 篇，会议 **9** 篇；CCF A 类 **6** 篇；IEEE/ACM Trans. **10** 篇)

[1] **G. Lyu**, S. Feng, T. Wang, C. Lang, Y. Li. GM-PLL: Graph Matching based Partial Label Learning. *IEEE Transactions on Knowledge and Data Engineering*. 33(2): 521-535. 2021 (**CCF A, JCR:Q1,中科院二区, IF:9.235**)

[2] **G. Lyu**, S. Feng, Y. Li. Partial Multi-Label Learning via Probabilistic Graph Matching Mechanism. *ACM SIGKDD Conference on Knowledge Discovery and Data Mining.* 2020: 105-113 (**CCF A, Oral**)

[3] **G. Lyu**, X. Deng, Y. Wu, S. Feng. Beyond Shared Subspace: A View-Specific Fusion for Multi-View Multi-Label Learning. *AAAI Conference on Artificial Intelligence*. 2022 (**CCF A**)

[4] **G. Lyu**, Y. Wu, S. Feng, T. Wang. Deep Graph Matching for Partial Label Learning. *International Joint Conference on Artificial Intelligence*. 2022 (**CCF A**)

[5] **G. Lyu**, S. Feng, T. Wang, C. Lang. A Self-Paced Regularization Framework for Partial Label Learning. *IEEE Transactions on Cybernetics*. 2022 (**CCF B, JCR:Q1,中科院一区, IF:19.118**)

[6] **G. Lyu**, S. Feng, Y. Jin, T. Wang, C. Lang, Y. Li. Prior Knowledge Regularized Self-Representation Model for Partial Multi-Label Learning. *IEEE Transactions on Cybernetics*. 2021 (**CCF B, JCR:Q1,中科院一区, IF:19.118**)

[7] **G. Lyu**, S. Feng, Y. Li, Y. Jin, C. Lang. HERA: Partial Label Learning by Combining Heterogeneous Loss with Sparse and Low-Rank Regularization. *ACM Transactions on Intelligent Systems and Technology*. 11(3), 34:1-34, 2020 (**JCR:Q1,中科院三区, IF:10.489**)

[8] **G. Lyu**, S. Feng, W. Liu, Y. Li. Redundant Label Learning via Subspace Representation and Global Disambiguation. *ACM Transactions on Intelligent Systems and Technology*. 2022 (**JCR:Q1,中科院三区, IF:10.489**)

[9] **G. Lyu**, S. Feng, S. Wang, Z. Yang. Prior Knowledge Constrained Adaptive Graph Framework for Partial Label Learning. *ACM Transactions on Intelligent Systems and Technology*. 2022 (**JCR:Q1,中科院三区, IF:10.489**)

[10] **G. Lyu**, S. Feng, Y. Li. Partial Label Learning via Self-Paced Curriculum Strategy. ***The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases***. 2020: 489-505 (**CCF B, Oral**)

[11] **G. Lyu**, S. Feng, Y. Li, H. Liu, T. Wang. Noisy Label Tolerance: A New Perspective of Partial Multi-Label Learning. ***Information Sciences***. 543: 541-564, 2021 (**CCF B, JCR:Q1, 中科院一区, IF:8.233**)

[12] **G. Lyu**, S. Feng, W. Huang, G. Dai, B. Chen. Partial Label Learning via Low-Rank Representation and Label Propagation. ***Soft Computing***. 24(7): 5165-5176, 2020 (**CCF C, JCR:Q2,中科院三区, IF:3.732**)

[13] Z. Li*, **G. Lyu***(equal contribution), S. Feng. Partial Multi-Label Learning via Multi-Subspace Representation. ***International Joint Conference on Artificial Intelligence***. 2020: 2612-2618 (**CCF A, Oral**)

[14] Y. Sun*, **G. Lyu***(equal contribution), S. Feng. Partial Label Learning via Subspace Representation and Global Disambiguation. ***The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases***. 2020: 439-454 (**CCF B, Oral**)

[15] L. Sun*, **G. Lyu***(equal contribution), S. Feng, X. Huang. Beyond Missing: Weakly-Supervised Multi-Label Learning with Incomplete and Noisy Labels. ***Applied Intelligence***. 51(3): 1552-1564, 2021 (**CCF C, JCR:Q1,中科院三区, IF:5.019**)

[16] Y. Wu, H. Liu, S. Feng, Y. Jin, **G. Lyu**, Z. Wu. GM-MLIC: Graph Matching based Multi-Label Image Classification. ***International Joint Conference on Artificial Intelligence***. 2021: 1179-1185 (**CCF A, Oral**)

[17] X. Deng, S. Feng, **G. Lyu**, H. Liu, Y. Jin. Beyond Word Embeddings: Heterogeneous Prior Knowledge Driven Multi-Label Image Classification. ***IEEE Transactions on Multimedia***. 2022 (**CCF B, JCR:Q1,中科院一区, IF:8.182**)

[18] L. Sun, S. Feng, J. Liu, **G. Lyu**, C. Lang. Global-Local Label Correlation for Partial Multi-Label Learning. ***IEEE Transactions on Multimedia***. 2020. (**CCF B, JCR:Q1,中科院一区, IF:8.182**)

[19] X. Lu, S. Feng, **G. Lyu**, Y. Jin, C. Lang. "Distance-Preserving Embedding Adaptive Bipartite Graph Multi-View Learning with Application to Multi-Label Classification", ***ACM Transactions on Knowledge Discovery from Data***. 2022. (**CCF B, JCR:Q1,中科院三区, IF:4.157**)

[20] Z. Gu, S. Feng, R. Hu, **G. Lyu**. "ONION: Joint Unsupervised Feature Selection and Robust Subspace Extraction for Graph-Based Multi-View Clustering", ***ACM Transactions on Knowledge Discovery from Data***. 2022. (**CCF B, JCR:Q1,中科院三区, IF:4.157**)

[21] L. Sun, S. Feng, **G. Lyu**, H. Zhang, G. Dai. Partial Multi-Label Learning with Noisy Side Information. ***Knowledge and Information Systems***. 63(2): 541-564. 2020. (**CCF B, JCR:Q3,中科院三区, IF:2.531**)

[22] L. Sun, Ping Ye, **G. Lyu**, S. Feng, G. Dai, H. Zhang. Weakly-Supervised Multi-Label Learning with Noisy Features and Incomplete Labels. ***Neurocomputing***. 413: 61-71. 2020 (**CCF C, JCR:Q1,中科院二区, IF:5.779**)

[23] M. Wang, C. Lang, L. Liang, **G. Lyu**, S. Feng, T. Wang. Class-balanced Text to Image Synthesis with Attention Generative Adversarial Network. ***IEEE Multimedia***. 2020. (**JCR:Q1,中科院二区, IF:3.491**)

[24] J. Zhao, **G. Lyu**, S. Feng. Linear Neighborhood Reconstruction Constrained Latent Subspace Discovery for Incomplete Multi-View Clustering. ***Applied Intelligence***. 2021. (**CCF C, JCR:Q1, 中科院三区, IF:5.019**)

[25] L. Sun, S. Feng, **G. Lyu**, C. Lang. Robust Semi-Supervised Multi-Label Learning by Triple Low-Rank Regularization. ***Pacific-Asia Conference on Knowledge Discovery and Data Mining***. 269-280. 2019. (**CCF**

C, Oral)

[26] M. Wang, C. Lang, L. Liang, **G. Lyu**, S. Feng, T. Wang. Attentive generative adversarial network to bridge multi-domain gap for image synthesis. *IEEE International Conference on Multimedia and Expo.* 1-6. 2021. (**CCF B, Oral**)

[27] S. Wang, M. Xia, Z. Wang, **G. Lyu**, S. Feng. Partial Label Learning with Noisy Side Information. *Applied Intelligence.* 2021. (**CCF C, JCR:Q1,中科院三区, IF:5.019**)

[28] W. Liu, J. Yuan, **G. Lyu**, S. Feng. Label Driven Latent Subspace Learning for Multi-View Multi-Label Classification. *Applied Intelligence.* 2022. (**CCF C, JCR:Q1,中科院三区, IF:5.019**)

■ 研究项目

[1] "偏标记学习算法研究",中央高校基本业务费   **主持**

[2] "弱监督多标记学习算法研究",中央高校基本业务费   **主持**

[3] "弱监督学习框架下大规模图像语义理解关键技术研究", 国家自然科学基金面上   参与

[4] "面向复杂场景的无监督迁移学习行人再识别方法研究", 国家自然科学基金面上   参与

[5] "弱监督学习框架下图像视觉显著性分析与语义分割关键技术研究", 国家自然科学基金面上参与

[6] "弱监督多标记学习算法研究及其在图像语义理解中的应用", 北京市自然科学基金面上   参与

[7] "弱监督学习框架下图像显著性检测与分割关键技术研究", 北京市自然科学基金面上   参与

[8] "智能安防中的视频数据保护及跨时空跨媒体信息关联技术研究", 教育部-中移动   参与

[9] "基于多源异构数据融合的环境感知与理解算法开发", 浙江省重点研发计划子课题   参与

[10] "弱监督多标记学习算法及其在图像语义理解中的应用", 基本科研业务费   参与

■ 发明专利

[1] 基于噪声容忍的偏多标记学习算法   202010412161.7

■ 学术服务

[1] **会议程序委员会成员 / 审稿人**: ICLR 2022, 2023; ICML 2021, 2022; NeurIPS 2021, 2022; CVPR 2021, 2022; ICCV 2021; ECCV 2022; AAAI 2021, 2022, 2023; IJCAI 2022; ECML-PKDD 2020;

[2] **期刊审稿人:** TPAMI, TNNLS, TCYB, TMM, TII, Neurocomputing;

■ 论文报告

[1] Partial Multi-Label Learning via Probabilistic Graph Matching Mechanism – ACM SIGKDD, 2020

[2] Partial Label Learning via Self-Paced Curriculum Strategy – ECML-PKDD, 2020

[3] Beyond Shared Subspace: A View-Specific Fusion for Multi-View Multi-Label Learning – AAAI, 2022

[4] Partial Multi-Label Learning via Multi-Subspace Representation – 2021 IJCAI 青年精英学术大会

[5] 基于概率图匹配机制的偏多标记学习算法 – 中国机器学习及其应用研讨会, 2020

■ 课程助教

[1]	C 语言程序设计	北京交通大学	2017, 2018, 2019
[2]	机器视觉基础	北京交通大学	2019
[3]	网络攻击与防护	北京工业大学	2022

■ 获奖及荣誉称号

[1] 北京工业大学第四层次优秀人才 2022

[2] 知行奖学金(北京交通大学研究生最高荣誉) 2021

[3] 宝钢优秀学生奖(2021 年全国 470 名) 2021

[4] 北京交通大学优秀共产党员 2021

[5] 国家奖学金 2014, 2020