



吕庚育

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■ 教育背景

2022.07-至今	北京工业大学计算机学院	校聘教授、博导
2018.09-2018.06	北京交通大学计算机与信息技术学院	硕博连读
2016.09-2018.07	北京交通大学计算机与信息技术学院	硕博连读
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

- [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:6.977)
- [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:11.448)
- [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:11.448)
- [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:4.654)
- [8] **G. Lyu, S. Wang, S. Feng.** 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:4.654)
- [9] **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)
- [10] **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:6.795)

- [11] **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:3.643)
- [12] 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)
- [13] 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)
- [14] 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:5.086)
- [15] 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:6.513)
- [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] 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:6.513)
- [18] 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:Q2,中科院三区, IF:2.713)
- [19] 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:Q2,中科院三区, IF:2.822)
- [20] 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:5.719)
- [21] 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:5.633)
- [22] 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:5.086)
- [23] 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)
- [24] 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)
- [25] 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:5.086)
- [26] 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:5.086)

■ 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
[11] “跨视域特定场景火灾烟雾识别与关联性预测”, 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
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■ 学术服务

- [1] 会议程序委员会成员 / 审稿人: ICLR 2022; ICML 2021, 2022; NeurIPS 2021; CVPR 2021, 2022; ICCV 2021; ECCV 2022; AAAI 2021, 2022; IJCAI 2022; ECML-PKDD 2020;
- [2] 期刊审稿人: TPAMI, TNNLS, TMM, TII;

■ 学术讲座

- [1] 会议报告:
- Partial Multi-Label Learning via Probabilistic Graph Matching Mechanism – ACM SIGKDD, 2020
 - Partial Label Learning via Self-Paced Curriculum Strategy – ECML-PKDD, 2020
 - Beyond Shared Subspace: A View-Specific Fusion for Multi-View Multi-Label Learning – AAAI, 2022
 - Deep Graph Matching for Partial Label Learning – IJCAI, 2022
- [2] 受邀报告:
- Partial Multi-Label Learning via Multi-Subspace Representation – 2021 IJCAI 青年精英学术大会
 - 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

■ 获奖及荣誉称号

[1]	北京交通大学优秀博士学位论文	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
[6]	华为奖学金	2021
[7]	特等或一等学业奖学金	2015, 2017, 2019, 2021
[8]	北京市优秀毕业生	2016, 2022
[9]	北京市三好学生	2015