|  |  |  |
| --- | --- | --- |
| **吕庚育** | **通信地址** | 北京市海淀区北京交通大学科技大厦605 |
| **电子邮箱** | [18112030@bjtu.edu.cn](mailto:18112030@bjtu.edu.cn); |
|  | lyugengyu@gmail.com |
| **个人主页** | https://gengyulyu.github.io/homepage/ |

-----------------------------------------------------------------------------------------------------------------------------------------------------

* **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

* **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