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教育背景

北京理工大学

北京, 中国

计算机学院在读博士生

2019.09 – 2025 (预计)

- 导师: 刘驰教授、李爽副教授

北京理工大学

北京, 中国

软件工程学士

2015.09 – 2019.07

- 绩点: 3.5/4.0; 优秀毕业生

论文发表

研究兴趣 迁移学习 (Transfer Learning)、数据高效学习 (Data-Efficient Learning) 和多模态学习 (Multimodal Learning)。

近年来, 在 CCF-A 类期刊和会议 TPAMI、TKDE、NeurIPS、CVPR、AAAI、MM 等上发表论文 13 篇 (一作 8 篇), 其中 3 篇论文 (CVPR2022, AAAI2023, CVPR2023) 被选为“口头报告 (Oral/Highlight)” (接收率: 2%-4%)。谷歌学术引用 700 余次 (2023 年 9 月数据), 代表性论文列表如下:

代表性论文 - 期刊论文

- [1]. Binhui Xie, Shuang Li, Mingjia Li, Chi Harold Liu, Gao Huang, Guoren Wang. SePiCo: Semantic-Guided Pixel Contrast for Domain Adaptive Semantic Segmentation, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**TPAMI**, **Q1**, **IF: 23.6**), 45(7): 9004-9021 (2023).
- [2]. Shuang Li, Binhui Xie, Qiuxia Lin, Chi Harold Liu, Gao Huang, Guoren Wang. Generalized Domain Conditioned Network, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (**TPAMI**, **Q1**, **IF: 23.6**), 44(8): 4093-4109 (2022).
- [3]. Binhui Xie, Shuang Li, Fangrui Lv, Chi Harold Liu, Guoren Wang, Dapeng Wu. A Collaborative Alignment Framework of Transferable Knowledge Extraction for Unsupervised Domain Adaptation, *IEEE Transactions on Knowledge and Engineering* (**TKDE**, **IF: 8.9**), 35:(7)6518-6533 (2023).

代表性论文 - 会议论文

- [4]. **Binhui Xie**, Shuang Li, Qingju Guo, Chi Harold Liu, Xinjing Cheng. Annotator: A Generic Active Learning Baseline for LiDAR Semantic Segmentation, *Neural Information Processing Systems (NeurIPS)*, 2023, New Orleans, Louisiana, USA.
- [5]. **Binhui Xie**, Longhui Yuan, Shuang Li, Chi Harold Liu, Xinjing Cheng. Towards Fewer Annotations: Active Learning via Region Impurity and Prediction Uncertainty for Domain Adaptive Semantic Segmentation, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR, Oral)*, 2022, New Orleans, Louisiana, USA.
- [6]. **Binhui Xie**, Longhui Yuan, Shuang Li, Chi Harold Liu, Xinjing Cheng, Guoren Wang. Active Learning for Domain Adaptation: An Energy-based Approach, *AAAI Conference on Artificial Intelligence (AAAI)*, 2022, Virtual Conference.
- [7]. Mingjia Li*, **Binhui Xie***(co-first author), Shuang Li, Chi Harold Liu, Xinjing Cheng. VBLC: Visibility Boosting and Logit-Constraint Learning for Domain Adaptive Semantic Segmentation under Adverse Conditions, *AAAI Conference on Artificial Intelligence (AAAI, Oral)*, 2023, Washington, DC, USA.
- [8]. Yuxin Fang, Wen Wang, **Binhui Xie**, Quan Sun, Ledell Yu Wu, Xinggang Wang, Tiejun Huang, Xinlong Wang, Yue Cao. EVA: Exploring the Limits of Masked Visual Representation Learning at Scale, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR, Highlight)*, 2023, Vancouver, Canada.
- [9]. Longhui Yuan, **Binhui Xie**, Shuang Li. Robust Test-Time Adaptation in Dynamic Scenarios, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023, Vancouver, Canada.
- [10]. Shuang Li, **Binhui Xie**, Jiashu Wu, Ying Zhao, Chi Harold Liu, Zhengming Ding. Simultaneous Semantic Alignment Network for Heterogeneous Domain Adaptation, *ACM Multimedia, (MM)* 2020, Virtual Conference.

其他论文

- [11]. Shuang Li, Chi Harold Liu, **Binhui Xie**, Limin Su, Zhengming Ding, Gao Huang. Joint Adversarial Domain Adaptation, *ACM Multimedia (MM)*, 2019, Nice, France.
- [12]. Shuang Li, Kaixiong Gong, **Binhui Xie**, Chi Harold Liu, Weipeng Cao, Song Tian. Critical Classes and Samples Discovering for Partial Domain Adaptation, *IEEE Transactions on Cybernetics (TYCB, Q1, IF: 11.8)*, 53(9): 5641-5654 (2023).

- [13]. Jiashu Wu, Yang Wang, **Binhui Xie**, Shuang Li, Hao Dai, Kejiang Ye, Chengzhong Xu. Joint Semantic Transfer Network for IoT Intrusion Detection, *IEEE Internet of Things Journal (IoT, Q1, IF: 10.6)*, 10(4): 3368-3383 (2023).
- [14]. Shuang Li, Fangrui Lv, **Binhui Xie**, Chi Harold Liu, Jian Liang, Chen Qin. Bi-Classifer Determinacy Maximization for Unsupervised Domain Adaptation, *AAAI Conference on Artificial Intelligence (AAAI)*, 2021, Virtual Conference.
- [15]. Shuang Li, Chi Harold Liu, Limin Su, **Binhui Xie**, Zhengming Ding, C. L. Philip Chen, Dapeng Wu. Discriminative Transfer Feature and Label Consistency for Cross-Domain Image Classification, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS, Q1, IF: 10.4)*, 31(11): 4842-4856 (2020).
- [16]. Shuang Li, Chi Harold Liu, Qiuxia Lin, **Binhui Xie**, Zhengming Ding, Gao Huang, Jian Tang. Domain Conditioned Adaptation Network, *AAAI Conference on Artificial Intelligence (AAAI)*, 2020, New York, NY, USA.

技术报告

- Dina Bashkirova, Samarth Mishra, Diala Lteif, Piotr Teterwak, Donghyun Kim, Fadi Alladkani, James Akl, Berk Calli, Sarah Adel Bargal, Kate Saenko, Daehan Kim, Minseok Seo, YoungJin Jeon, Dong-Geol Choi, Shahaf Ettehadgui, Raja Giryes, Shady Abu-Hussein, **Binhui Xie**, Shuang Li. VisDA 2022 Challenge: Domain Adaptation for Industrial Waste Sorting, arXiv preprint arXiv:2303.14828.
- Shuang Li, **Binhui Xie**, Bin Zang, Chi Harold Liu, Xinjing Cheng, Ruigang Yang, Guoren Wang. Semantic Distribution-aware Contrastive Adaptation for Semantic Segmentation, arXiv preprint arXiv:2105.05013.
- **Binhui Xie**, Mingjia Li, Shuang Li. SPCL: A New Framework for Domain Adaptive Semantic Segmentation via Semantic Prototype-based Contrastive Learning, arXiv preprint arXiv:2111.12358.

学术服务

学术组织

- 学生论坛 @Valse 2022 组织者, 地点: 天津

会议审稿

- International Conference on Learning Representations (ICLR) 2023, 2024

- Neural Information Processing Systems (NeurIPS) 2023
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2021, 2022, 2023
- International Conference on Computer Vision (ICCV) 2021, 2023
- European Conference on Computer Vision (ECCV) 2022
- AAAI Conference on Artificial Intelligence (AAAI) 2021, 2022, 2023, 2024

期刊审稿

- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- Pattern Recognition (PR)
- IEEE Transactions on Intelligent Vehicles (TIV)

助教

- 机器学习基础, 2021 (春) & 2022 (春)

学术汇报

- 2023.4, **VALSE** (论文速览-110 期), 数据高效的语义分割
- 2022.6, **ReadPaper** (令人心动的 CVPR), 面向更少注释: 主动自适应学习的语义分割
- 2022.6, **机器之心** (CVPR 2022 线上论文分享会), 面向更少注释: 主动自适应学习的语义分割
- 2022.5, **智东西公开课** (AI 新青年讲座), 主动域自适应学习
- 2022.03, **新智驾** (直播), 基于能量模型的主动域自适应学习
- 2021.10, **VALSE 2020** (杭州), 焦点论文 & 海报, Generalized Domain Conditioned Adaptation Network.

获得荣誉

- 季军, VisDA Challenge@NeurIPS, 2022.
- 特等学业奖学金, 北京理工大学, 2022.
- 国瑞奖学金 (全校 8 人), 中国电科, 2021.
- 优秀毕业生 & 优秀本科论文, 北京理工大学, 2019.