

Binhui Xie

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EDUCATION

- **Beijing Institute of Technology** Beijing, China
Ph.D. Student in School of Computer Science and Technology, Advisor: Prof. Shuang Li Sep. 2019 - Present
- **Beijing Institute of Technology** Beijing, China
B.Eng. in Software Engineering, GPA: 3.5/4.0 Sep. 2015 - Jul. 2019

RESEARCH INTERESTS

My research interests are in transfer and data-efficient learning (particularly domain adaptation, and active learning) across visual tasks and domains.

PUBLICATIONS

1. **Binhui Xie**, Longhui Yuan, Shuang Li, Chi Harold Liu and 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.
2. **Binhui Xie**, Longhui Yuan, Shuang Li, Chi Harold Liu, Xinjing Cheng and Guoren Wang. Active Learning for Domain Adaptation: An Energy-based Approach, *AAAI Conference on Artificial Intelligence (AAAI)*, 2022, Virtual Conference.
3. Shuang Li, **Binhui Xie**, Qiuxia Lin, Chi Harold Liu, Gao Huang and Guoren Wang. Generalized Domain Conditioned Network, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI, Q1, IF=16.39)*, 2021.
4. 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.
5. Shuang Li, Chi Harold Liu, **Binhui Xie**, Limin Su, Zhengming Ding, Gao Huang. Joint Adversarial Domain Adaptation, *ACM Multimedia (MM)*, 2019, Nice, France.
6. Shuang Li, Fangrui Lv, **Binhui Xie**, Chi Harold Liu, Jian Liang, Chen Qin. Bi-Classifier Determinacy Maximization for Unsupervised Domain Adaptation, *AAAI Conference on Artificial Intelligence (AAAI)*, 2021, Virtual Conference.
7. 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 (TCYB, Q1, IF=11.44)*, 2022.
8. 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.
9. 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=10.45)*, 31(11): 4842-4856 (2020).

Preprint

- **Binhui Xie**, Shuang Li, Mingjia Li, Chi Harold Liu, Gao Huang, Guoren Wang. SePiCo: Semantic-Guided Pixel Contrast for Domain Adaptive Semantic Segmentation, arXiv preprint, 2022.

- 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, 2021.
- **Binhui Xie**, Mingjia Li Shuang Li. SPCL: A New Framework for Domain Adaptive Semantic Segmentation via Semantic Prototype-based Contrastive Learning, arXiv preprint, 2021.

ACADEMIC SERVICES

Reviewer for IEEE CVPR 2021-2022, AAAI 2021-2022, IEEE ICCV 2021, ECCV 2022 etc.

INVITED TALKS

- 2022.5, Zhidx Course, Towards Fewer Annotations: Active Learning for Adaptive Semantic Segmentation.
- 2022.03, AI Drive, Energy-based Active Domain Adaptation.
- 2021.10, VALSE, Generalized Domain Conditioned Adaptation Network.