

Taotao Jing

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[\[Google Scholar\]](#) [\[DBLP\]](#) [\[Home Page\]](#) [\[Research Gate\]](#) [\[LinkedIn\]](#) [\[Github\]](#)

EDUCATION

School of Science & Engineering Tulane University <i>Ph.D. student in Computer Science</i>	New Orleans, USA Dec. 2020 - Present
Purdue School of Engineering & Technology Purdue University <i>Ph.D. student in Electrical and Computer Engineering</i>	Indianapolis, USA Jan. 2018 - Dec. 2020
Department of Electrical & Computer Engineering Northeastern University <i>M.S. in Computer System Engineering</i>	Boston, USA Sep. 2016 - May 2018
Department of Electronic and Information Engineering Xi'an Jiaotong University <i>B.S. in Electronic Science and Technology</i>	Xi'an, China Sep. 2012 - Jul. 2016

RESEARCH PROJECTS

Marginalized Augmented Few-shot Domain Adaptation Research Assistant Purdue University, Indianapolis, USA	Mar. 2020 - Sep. 2020 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none">Proposed a two-pronged data augmentation strategy to address the challenges resulting from scarcity of training dataProvided theoretical analysis and efficient implementation strategy of the proposed methodAchieved state-of-the-art performance on several popular few-shot domain adaptation visual benchmarks	
Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation Research Assistant Purdue University, Indianapolis, USA	Jan. 2020 - Mar. 2020 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none">Presented a dual distinct classifier model to align cross-domain distribution and task-specific decision boundariesProposed a source-guided adaptively-accumulated learning strategy to facilitate cross-domain knowledgeAchieved state-of-the-art performance on several commonly used partial domain adaptation tasks	
Towards Fair Knowledge Transfer for Imbalanced Domain Adaptation Research Assistant Purdue University, Indianapolis, USA	Sep. 2019 - Jan. 2020 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none">Exploited a generative data augmentation framework to handle fairness challenges in domain adaptation tasksDesigned a novel cross-domain few-shot learning experiment settings to evaluate the cross-domain fairness transferProduced new state-of-the-art on several popular benchmarks under the cross-domain few-shot learning settings	
Adversarial Dual Distinct Classifier for Unsupervised Domain Adaptation Research Assistant Purdue University, Indianapolis, USA	Mar. 2019 - Jun. 2019 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none">Exploited dual task-specific classifiers architecture to align cross-domain distribution and decision boundariesProposed a novel discriminative cross-domain alignment loss and importance guided optimization strategy to mitigate the cross-domain mismatching and learn the domain-invariant embedding features across domainsCreated new state-of-the-art on several cross-domain visual unsupervised domain adaptation benchmarks	
EV-Action: Electromyography-Vision Multi-Modal Action Dataset Research Assistant SMILE Lab, NEU, Boston, USA	Jan. 2018 - Jul. 2018 Supervisor: <i>Prof. Yun Raymond Fu</i>
<ul style="list-style-type: none">Collected and introduced the first, large-scale EV-Action dataset consisting of RGB, depth, electromyography, and two skeleton modalities for human action recognition tasks including over 7,000 samples from 70 human subjectsProposed an effective framework for EMG-based action recognition and reported the state-of-the-art performance	

PUBLICATIONS & PREPRINTS

- **Taotao Jing**, and Zhengming Ding. “Adversarial Dual Distinct Classifiers for Unsupervised Domain Adaptation.” *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2020
- **Taotao Jing**, Haifen Xia, and Zhengming Ding, “Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation.” *ACM International Conference on Multimedia (MM)*, 2020
- Lichen Wang, Bin Sun, Joseph Robinson, **Taotao Jing**, and Yun Fu. “EV-Action: Electromyography-Vision Multi-Modal Action Dataset.” *IEEE International Conference on Automatic Face and Gesture Recognition (FG)*, 2020
- ◇ **Taotao Jing**, Ming Shao, and Zhengming Ding. “Discriminative Cross-Domain Feature Learning for Partial Domain Adaptation.” arXiv preprint, 2020
- ◇ **Taotao Jing**, Bingrong Xu, Jingjing Li, and Zhengming Ding. “Towards Fair Knowledge Transfer for Imbalanced Domain Adaptation.” arXiv preprint, 2020

TECHNICAL SKILLS

Machine Learning: PyTorch, TensorFlow, Python, MATLAB, Keras

Programming: Java, MySQL, MongoDB, JavaScript, Shell, Spring MVC, HTML, AngularJS, CSS, Git, LaTeX, Linux