

Taotao Jing

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EDUCATION

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

RESEARCH EXPERIENCE

Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation	Jan. 2020 - Mar. 2020
Research Assistant IUPUI, Indianapolis, USA	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 Domain Adaptation	Sep. 2019 - Dec. 2020
Research Assistant IUPUI, Indianapolis, USA	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	Mar. 2019 - Jun. 2020
Research Assistant IUPUI, Indianapolis, USA	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	
Discriminative Cross-Domain Feature Learning for Partial Domain Adaptation	Sep. 2018 - Mar. 2019
Research Assistant IUPUI, Indianapolis, USA	Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none">Developed a novel weighted graph-based framework for discriminative cross-domain features learningAchieved state-of-the-art performance on several popular partial domain adaptation benchmarks	
EV-Action: Electromyography-Vision Multi-Modal Action Dataset	Jan. 2018 - Jul. 2018
Research Assistant SMILE Lab, NEU, Boston, USA	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	

WORK EXPERIENCE

Synchronoss Technologies, Inc.	Beijing, China
Quality Assurance Intern	May. 2017 - Aug. 2017
<ul style="list-style-type: none">Supported and participated in quality remediation projects including functional validation and revision of productsExecuted and upgraded the operating protocols of validation, root cause analysis, and authoring validation reportsUpgraded automated testing procedures and protocols, developed and maintained automated testing scripts	

PUBLICATIONS

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

ACADEMIC SERVICE

Reviewer

- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)
- European Conference on Computer Vision (ECCV)
- European Conference on Artificial Intelligence (ECAI)
- IS&T SPIE Journal of Electronic Imaging (SPIE JEI)

TECHNICAL SKILLS

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

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