Taotao Jing

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EDUCATION

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

RESEARCH EXPERIENCE

Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation   Jan. 2020 - Mar. 2020
Research Assistant | IUPUI, Indianapolis, USA   Supervisor: *Prof.* Zhengming Allan Ding
- Presented a dual distinct classifier model to align cross-domain distribution and task-specific decision boundaries
- Proposed a source-guided adaptively-accumulated learning strategy to facilitate cross-domain knowledge
- Achieved 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: *Prof.* Zhengming Allan Ding
- Exploited a generative data augmentation framework to handle fairness challenges in domain adaptation tasks
- Designed a novel cross-domain few-shot learning experiment settings to evaluate the cross-domain fairness transfer
- Produced 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: *Prof.* Zhengming Allan Ding
- Exploited dual task-specific classifiers architecture to align cross-domain distribution and decision boundaries
- Proposed 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 domains
- Created 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: *Prof.* Zhengming Allan Ding
- Developed a novel weighted graph-based framework for discriminative cross-domain features learning
- Achieved 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: *Prof.* Yun Raymond Fu
- 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 subjects
- Proposed 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
- Supported and participated in quality remediation projects including functional validation and revision of products
- Executed and upgraded the operating protocols of validation, root cause analysis, and authoring validation reports
- Upgraded 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