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 | Purdue University, 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 | Purdue University, 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 | Purdue University, 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 | Purdue University, 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

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

TECHNICAL SKILLS

Machine Learning: PyTorch, TensorFlow, Python, MATLAB, Keras
Programming: Java, MySQL, MongoDB, JavaScript, Shell, Spring MVC, HTML, AngularJS, CSS, Git, LaTeX, Linux