

# Taotao Jing

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

## EDUCATION

<b>School of Science &amp; Engineering   Tulane University</b> <i>Ph.D. student in Computer Science</i>	New Orleans, USA Jan. 2021 - Present
<b>Purdue School of Engineering &amp; Technology   Purdue University</b> <i>Ph.D. student in Electrical and Computer Engineering</i>	Indianapolis, USA Jan. 2019 - Dec. 2020
<b>Department of Electrical &amp; Computer Engineering   Northeastern University</b> <i>M.S. in Computer System Engineering</i>	Boston, USA Sep. 2016 - May 2018
<b>Department of Electronic and Information Engineering   Xi'an Jiaotong University</b> <i>B.S. in Electronic Science and Technology</i>	Xi'an, China Sep. 2012 - Jul. 2016

## RESEARCH PROJECTS

<b>Towards Novel Target Discovery Through Open-Set Domain Adaptation</b> Research Assistant   Tulane University, New Orleans, USA	Nov. 2020 - Mar. 2021 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none"><li>Proposed a challenging but practical task as understanding the unknown categories in the open-set tasks</li><li>Designed an effective framework to identify seeing categories and recover semantic attributes for unseen categories</li><li>Constructed two cross-domain open-set recognition and semantic recovery benchmarks to evaluate the framework</li></ul>	
<b>Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation</b> Research Assistant   Purdue University, Indianapolis, USA	Jan. 2020 - Apr. 2020 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none"><li>Presented a dual distinct classifier model to align cross-domain distribution and task-specific decision boundaries</li><li>Proposed a source-guided adaptively-accumulated learning strategy to facilitate cross-domain knowledge</li><li>Achieved state-of-the-art performance on several commonly used partial domain adaptation tasks</li></ul>	
<b>Adversarial Dual Distinct Classifier for Unsupervised Domain Adaptation</b> Research Assistant   Purdue University, Indianapolis, USA	Mar. 2019 - Jun. 2019 Supervisor: <i>Prof. Zhengming Allan Ding</i>
<ul style="list-style-type: none"><li>Exploited dual task-specific classifiers architecture to align cross-domain distribution and decision boundaries</li><li>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</li><li>Created new state-of-the-art on several cross-domain visual unsupervised domain adaptation benchmarks</li></ul>	
<b>EV-Action: Electromyography-Vision Multi-Modal Action Dataset</b> Research Assistant   SMILE Lab, NEU, Boston, USA	Jan. 2018 - Jul. 2018 Supervisor: <i>Prof. Yun Raymond Fu</i>
<ul style="list-style-type: none"><li>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</li><li>Proposed an effective framework for EMG-based action recognition and reported the state-of-the-art performance</li></ul>	

## PUBLICATIONS & PREPRINTS

- Taotao Jing**, Bingrong Xu, Jingjing Li, and Zhengming Ding. "Towards Fair Knowledge Transfer for Imbalanced Domain Adaptation." *IEEE Transactions on Image Processing (TIP)*, 2021
- Taotao Jing**, Hongfu Liu, and Zhengming Ding. "Towards Novel Target Discovery Through Open-Set Domain Adaptation." *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV) (Oral)*, 2021
- Haifeng Xia, **Taotao Jing**, and Zhengming Ding. "Semi-supervised Domain Adaptation Retrieval via Discriminative Hashing Learning." *Proceedings of the ACM International Conference on Multimedia (MM)*, 2021
- 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**, Haifeng Xia, and Zhengming Ding. "Adaptively-Accumulated Knowledge Transfer for Partial Domain Adaptation." *Proceedings of the 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