SHU-HAN TAN

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EDUCATION

School of Data and Computer Science, Sun Yat-Sen University Aug. 2016 - Jun. 2020
B.E. in Computer Science & Technology
Overall GPA: 4.11/5.0, Major GPA: 4.32/5.0, Overall Ranking: 6/214
Core Courses:
Computer Programming (97/100) , Discrete Mathematics (96/100),
Data Structures and Algorithms (95/100), Operating Systems (98/100),
Artificial Intelligence (99/100), Distributed Systems (99/100).

PUBLICATIONS

1. **Shuhan Tan**, Jiening Jiao, Wei-Shi Zheng. Weakly Supervised Open-set Domain Adaptation by Dual-domain Collaboration. IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), **2019**.
2. Rong Zhang, **Shuhan Tan**, Ruixuan Wang, Siyamalan Manivannan, Wei-Shi Zheng. Biomarker Localization by Combining CNN Classifier and Generative Adversarial Network. *Submitted to* Medical Image Computing and Computer Assisted Interventions (**MICCAI**), **2019**.

RESEARCH EXPERIENCE

Unsupervised Person Re-identification Through Transfer Learning Nov. 2018 - Present
Undergraduate Researcher *Sun Yat-Sen University*

· Advisor: Prof. Wei-Shi Zheng

➢ Researched the existed methods for Unsupervised Person Re-identification, which tackles the Person Re-identification problem when there is a lack of labeled data in the application data domain.

➢ Identified the neglect of data distribution differences of images captured by different cameras in the existed transfer-learning-based methods.

➢ Proposed a transfer-learning-based method that transfers identity information from multiple labeled datasets to the target domain in a camera-specific fashion, which has outperformed state-of-the-art methods by large margins on two standard benchmarks.

Domain Adaptation Practicality Research Jan. 2018 - Nov. 2018
Undergraduate Researcher *Sun Yat-Sen University*

· Advisor: Prof. Wei-Shi Zheng

➢ Researched and identified conventional assumptions that make Domain Adaptation, a Transfer Learning subfield, hard to be applied in real applications.

➢ Proposed an innovative weakly-supervised open-set Domain Adaptation setting, where we relax the assumption that there is a fully-labeled source domain, as well as the assumption that label spaces of the two domains are identical.

➢ Proposed a novel algorithm to solve the new setting to transfer knowledge bilaterally between two partly-labeled domains, which outperformed all the existed methods on both standard benchmark and a real-world application.

AWARDS

Meritorious Award, COMAP Mathematical Contest in Modeling (top %7) Feb. 2018
Excellent Student Scholarship, SYSU (top %5) Aug. 2017 - Jul. 2018
Excellent Student Scholarship, SYSU (top %5) Aug. 2016 - Jul. 2017

SKILLS

Programming C/C++, Python, Matlab, PyTorch, TensorFlow
Language Proficiency TOFEL: Total 110 (Reading 30, Listening 30, Speaking 23, Writing 27)