Hang Wang

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Objective: Computer Vision Algorithm Engineer

Education

Shanghai Jiao Tong University (SJTU), Shanghai, China 2019 – Present

Master student in Electrical Engineering (EE), expected March 2022
- Coursework: Matrix Theory, Convex Optimization, Digital Image Processing.

Shanghai Jiao Tong University (SJTU), Shanghai, China 2015 – 2019

B.S. in Electrical Engineering (EE)
- Coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms.

Research

Multi-source Domain Adaptation SJTU, China

Learning to Combine: Knowledge Aggregation for Multi-Source Domain Adaptation, ECCV 2020 [pdf] [code]

Proposed a framework to transfer the knowledge learned from multiplu source domains to target domain via information propagation among multiple domains, and designed a relation loss to facilitate the consistency of categories' relational interdependency and the compactness of features.

Cross Domain Detection. SJTU, China

Cross-Domain Detection via Graph-Induced Prototype Alignment, CVPR 2020 (oral) [pdf] [code]

Proposed a novel alignment framework to perform category-level domain alignment via elaborate prototype representations and also designed a class-reweighted contrastive loss to alleviate the negative effect of class-imbalance during the process of domain adaptation.

Unsupervised graph representations learning. SJTU, China

Proposed an unsupervised framework to distinguishes feature embeddings of different granularity, including node embeddings, graph embeddings, and category-level features. (Under review by NIPS 2020)

Stability of Generative Adversarial Networks. SJTU, China

Proposed an improved variant for WGANs by adding an upper-bound constraint to the Wasserstein term. (In submission)

Real-time handover of 5G Communication. SJTU, China

mmHandover: a pre-connection based handover protocol for 5G millimeter wave vehicular networks, IWQos 2019 [pdf]

Designed a pre-connection based handover protocol to build a real-time 5G mmWave vehicular network system leveraging mmWave antennae. Accepted by IWQos 2019.

Skills

Programming language	Python, C++, Matlab, SQL, Pytorch, Latex.
	Chinese (Native speaker), English (CET6: 573 CET4: 570)

Honors and Awards

1st place in Bigo 1st Short Video Content Generation Challenge.	2019.11
Excellent League Member of Shanghai Jiao Tong University.	2016-2017
Excellent Student Cadre of Shanghai Jiao Tong University.	2017-2018
Outstanding Graduates of Shanghai Jiao Tong University.	2019
First Prize of Academic Excellence Scholarship of Shanghai Jiao Tong University.	2019