HAORAN WANG

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https://github.com/krumo ◇ https://krumo.github.io/

EDUCATION

ETH Zürich, Switzerland September 2017 - August 2020*(expected)*
Msc in Computer Science
Sichuan University, China September 2013 - July 2017
BEng in Computer Science GPA: 3.89/4.0, ranking: 2/370
Thesis: Performance evaluation of typical storage systems for streaming data (95/100)

RESEARCH EXPERIENCE

Computer Vision Lab, ETH Zürich, Switzerland July 2018 - January 2019
Research Assistant *Github Repo*

- Re-implemented CVPR 2018 work 'Domain Adaptive Faster R-CNN for Object Detection in the Wild' based on Facebook's object detection framework Detectron
- Improved training stability by proposing a fine-grained consistency regularization to reduce domain misalignment
- Improved performance on cross domain car detection task from 37.7% to 42.6% with our proposed regularization

PROFESSIONAL EXPERIENCE

Computer Vision and Multimedia Lab, JD AI Research, China March 2019 - November 2019
Research Intern

- Reduced model training time by 75% by implementing distributed training pipeline
- Improved performance on cross domain semantic segmentation from 39.3% to 49.2% by aligning class-level feature distribution with class-aware domain discriminator
- Led the team to win 4th entry out of 242 teams in iMat-Fashion Competition at CVPR 2019 workshop

PUBLICATION

- **Haoran Wang**, Tong Shen, Wei Zhang, Lingyu Duan, Tao Mei. *Anonymous Submission* to ECCV 2020
- Yuhua Chen, **Haoran Wang**, Wen Li, Christos Sakaridis, Dengxin Dai, Luc Van Gool. Scale-Aware Domain Adaptive Faster R-CNN. (Submitted to IJCV)

PROJECT EXPERIENCE

Kaggle: iMat-Fashion Competition at CVPR 2019 workshop May 2019 - June 2019

- Improved performance for apparel instance segmentation by 13% with model ensembles and post-processing
- Improved results by 2% by using exhaustive search to find optimal strategies to merge predictions of each category
- Got Gold Medal at final Private Leaderboard, rank 4/242

VisDA-2018 Challenge at ECCV 2018 workshop June 2018 - August 2018

- Improved performance for cross domain object detection by 5% by performing input-level and feature-level adaptation
- Reduced domain gap by using Cycle GAN to adapt target images to source style
- Rank No.4 at final leaderboard

TECHNICAL STRENGTHS

Languages C/C++, MATLAB, Python, Java, JavaScript, LaTeX
Toolboxes PyTorch, Caffe2, Tensorflow, OpenCV