Jianyang Gu

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Education

Zhejiang University Hangzhou, China
B.Eng. in Control Science and Engineering *Sep. 2015 – Jun. 2019*
- Courses: Automation Control, OOP, Robotic Design, Computer Vision

Zhejiang University Hangzhou, China
Ph.D. in Control Science and Engineering *Sep. 2019 – Exp. Jun. 2024*
- Research Interests: Unsupervised Domain Adaptation, Image Retrieval, Person Re-Identification

Projects

Multi-view Evolutionary Training for UDA Re-ID Dec. 2020 – Mar. 2021
- Improve the accuracy of clustering results from two dimensions.
- Integrate information from multiple views to promote the quality at separate clustering steps.
- Maintain the historical consistency between adjacent clustering results.

Bias Elimination for UDA Re-ID Jun. 2020 – Aug. 2020
- First place solution to the Visual Domain Adaptation Challenge 2020.
- Solve the inter-domain bias with generative networks and clustering-based training pipeline.
- Solve the intra-domain bias brought by camera differences with post-processing methods.

Angular Triplet Loss for Vehicle Re-ID Jul. 2019 – Oct. 2019
- Uniform the metric space for triplet loss and cross entropy loss.
- Design an effective baseline with only global feature employed.

Work Experience

OPPO Research Intern Nov. 2021 – Jun. 2022
- Focused on the generalizable person re-identification structure.

Alibaba Research Intern Jun. 2020 – Apr. 2021
- Focused on the unsupervised domain adaptive person re-identification.

Yitu Tech. CI Intern May. 2018 – Aug. 2018
- Participated in building up the automated test pipeline for products.

Awards & Honors

- **Third Place, ActivityNet Temporal Action Localization Challenge in CVPR Workshop** 2022
- **Third Place, SoccerNet Challenge 2022 Action Spotting in CVPR Workshop** 2022
- **First Place, AICity Challenge 2021 Track 2 in CVPR Workshop** 2021
- **Alibaba Annual Outstanding Research Intern** 2020
- **Second Prize, National AI Challenge 2020 Person Re-Identification Track** 2020
- **First Place, Visual Domain Adaptation Challenge 2020 in ECCV Workshop** 2020
- **Annual Merit Graduate Student** 2020
- **First Place, Robocup Montreal** 2018

Publications

- **J. Gu**, W. Chen, H. Luo, F. Wang, H. Li, W. Jiang, and W. Mao. Multi-view Evolutionary Training for Unsupervised Domain Adpative Re-identification. *IEEE TIFS* 17, 344-356, (2022).
- **J. Gu**, H. Luo, W. Chen, Y. Jiang, Y. Zhang, S. He, F. Wang. H. Li, and W. Jiang. 1st Place Solution to VisDA-2020: Bias Elimination for Domain Adaptive Pedestrian Re-identification. *ArXiv*, 2012.13498 (2021).
- **J. Gu**, W. Jiang, H. Luo, and H. Yu. An efficient global representation constrained by Angular Triplet loss for vehicle re-identification. *Pattern Anal Applic* 24, 367–379 (2021).
- W. Li*, S. Chen*, **J. Gu***, N. Wang, C. Chen, and Y. Guo. MV-TAL: Mulit-view temporal action localization in naturalistic driving. *CVPRW* 3242-3248 (2022).
- X. Pan, H. Luo, W. Jiang, J. Zhang, **J. Gu**, and P. Li. SFGN: Representing the sequence with one super frame for video person re-identification. *Knowledge-Based Systems*, 108884 (2022).
- S. Chen, W. Li, C. Chen, **J. Gu**, J. Chu, X. Tao, and Y. Guo. SEAL: A Large-scale Video Dataset of Multi-grained Spatio-temporally Action Localization. *ArXiv*, 2204.02688 (2022).
- H. Luo, W. Chen, X. Xu, **J. Gu**, Y. Zhang, C. Liu, Y. Jiang, S. He, F. Wang, and H. Li. An Empirical Study of Vehicle Re-Identification on the AI City Challenge. *CVPRW* 4095-4102 (2021).
- H. Luo, W. Jiang, Y. Gu, F. Liu, X. Liao, S. Lai, and **J. Gu**. A strong baseline and batch normalization neck for deep person re-identification. *TMM* 22(10), 2597-2609 (2019).