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. Student in Control Science and Engineering *Sep. 2019 – Present*
- Research Interests: Unsupervised Domain Adaptation, Image Retrieval, Person Re-Identification

Projects

Multi-view Evolutionary Training for UDA Re-ID (In submission) 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
- 1st 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

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

Alibaba Excellent Research Intern 2020
- Awarded for the out-standing research interns annually.

National AI Challenge 2020 Person Re-Identification Track Second Prize 2020
- A national AI competition; beaten more than 300 teams.

Visual Domain Adaptation Challenge 2020 First Place 2020
- An international competition hold by ECCV workshop; beaten MMLab, Ruiyan Tech., JD AI, etc.

Merit Graduate Student 2020
- Awarded for the out-standing graduate students annually.

Robocup Montreal First Place 2018
- An international competition on robot soccer.

Publications

- Gu, J., Jiang, W., Luo, H. et al. An efficient global representation constrained by Angular Triplet loss for vehicle re-identification. Pattern Anal Applic 24, 367–379 (2021).
- Gu, J., Luo, H., Chen W. et al. 1st Place Solution to VisDA-2020: Bias Elimination for Domain Adaptive Pedestrian Re-identification. ArXiv, 2012.13498.