Yuke Li

liyuke65535@gmail.com · (+86) 173-8157-5078 · https://github.com/liyuke65535 ·

Research Interest

Computer Vision:

- **Person/object re-identification**, image matching
- **visual-language**, cross modality

Deep Learning/Machine Learning:

- **Domain generalization**
- metric learning
- self-supervised learning

Education

University of Electronic Science and Technology of China, UESTC 2021 – 2024

Master in Computer Technology *Chengdu, China*

Advisor Prof. Jingkuan Song (Computer vision)

Sichuan University, SCU 2017 – 2021

Bachelor in Computer Science and Technology *Chengdu, China*

Publications

Style-Controllable Generalized Person Re-identification Accepted by ACM MM 2023

- **Yuke Li**, Jingkuan Song, Hao Ni, Heng Tao Shen.
- Image / domain diversity largely effects the generalization of ReID. The naive way of increasing diversity is use multiple source trainset, which inevitably leads to easier triplets for metric learning. This work Aims at raising style diversity, and conducting more effective metric learning at the meantime via a Dynamic Style Mixing method together with a Style-aware Hard Sampler.

Part-Aware Transformer for Generalizable Person Re-identification Accepted by ICCV 2023

- Hao Ni, **Yuke Li**, Heng Tao Shen, Jingkuan Song.
- Previous DG ReID mainly based on Supervised learning, which lacks the ability of extracting non-label information, and often accompanied with over-fitting. Based on this, via adding part tokens to ViTs, a proxy task called Cross-ID Similarity Learning that mines non-label part visual knowledge is proposed. To better alleviate the side effect of labels and re-balance classification loss, a Part-guided Self-distillation is designed.

Experience

Kwai MMU Product Price Comparison July 2023 - Sep. 2023

- **Kwai** is a social network for short videos and trends.
- **MMU Department** is responsible for Kwai's product understanding and retrieval, short video content understanding, and series of multi-modal understanding.
- **Product Price Comparison Group** aims at matching the same products through both the product images and product descriptions.
- **Personal Work Focus** on matching fine-grained products through leveraging the knowledge from large visual-language models. 1. Text information with zero-shot and naive prompt. 2. Text and Visual information with two-shot and ruled prompt. 3. Construct reliable in-context templates for different product pairs from their nearest candidates.

Projects

Style-Controllable-Generalized-Person-Re-identification 2023

- A project of pytorch implementation for ACM MM 2023 paper of "Style-Controllable Generalized Person Re-identification".

Part-Aware-Transformer 2022

- A project of pytorch implementation for ICCV 2023 paper of "Part-Aware Transformer for Generalizable Person Re-identification".

Awards

- Excellent Postgraduate Student, provided by UESTC 2023
- Academic First Prize Scholarship, provided by UESTC 2023
- Academic Third Prize Scholarship, provided by UESTC 2022
- Entrance Second Prize Scholarship, provided by UESTC 2021
- Individual Scholarship, provided by SCU 2020

Skills

- Familiar with python, Pytorch, and Linux
- Languages: CET-6; IELTS: 7.0 (7.0 7.5 6.5 6.0).