Yunkang Tao

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EDUCATIONAL BACKGROUND

Chongqing University **Chongqing, China**
MEng in Software Engineering Sep.2021-Jun.2024
Average Score: 87.53

Chongqing University **Chongqing, China**
BEng in Safety Engineering Sep.2017-Jun.2021
GPA: 3.4/4.0 (Ranked in the top 10% of my major, granted direct admission to graduate studies without examination)

PUBLICATION

[1] Xiao Chen, Xudong Jiang, **Yunkang Tao**, Zhen Lei, Qing Li, Chenyang Lei#, Zhaoxiang Zhang#, Towards Flexible Interactive Reflection Removal with Human Guidance, AAAI, 2025

WORK&INTERN EXPERIENCE

- **Beijing SeeKoo Technology Co., Ltd.**
  Artificial Intelligence Algorithm Intern **May 2025-Now**
- **Centre for Artificial Intelligence and Robotics (CAIR), Hong Kong Institute of Science & Innovation, Chinese Academy of Sciences** **Nov. 2023-Apr. 2025**
  Research Assistant in AIGC
- **Chongqing Kong Jian Xin Shi Artificial Intelligence Technology Research Institute Co., Ltd.**
  Intern as an AI R&D Engineer **Jun. 2021-Oct.2022**

RESEARCH EXPERIENCE

1. **Towards Flexible Interactive Reflection Removal with Human Guidance (Finished)**
   - Published the paper "Towards Flexible Interactive Reflection Removal with Human Guidance" in AAAI 2025.
   - Meticulously designed a custom dataset with roughly 400 samples and leveraged the SAM model to annotate reflective regions.
2. **Research on Fusion Algorithm of Character LoRAs and Style LoRAs for Image Generation(Ongoing)**
   - Developed a PyTorch baseline that fuses Character- and Style-LoRA weights during inference, integrating 4 in-house character LoRAs and 5 style LoRAs; qualitative A/B tests demonstrated superior identity retention and stylistic fidelity versus single-LoRA baselines.
   - Drafted a research roadmap to expand the fusion algorithm to a wider catalog of character and style LoRAs and to add a user-adjustable “stylization strength” control that balances character-ID consistency with artistic style.
3. **EasyCamera: Depth Information is Key to Precise Camera Control in Video Generation (Ongoing)**
   - Developed a specialized pipeline for precise camera control in video generation, utilizing depth information to substantially increase the accuracy of camera operations throughout the production process.
   - Meticulously designed a large-scale dataset comprising approximately 200k samples with camera movement annotations, incorporating 3D data, 4D data, and real-world videos.
   - Currently preparing a paper for submission.
4. **Celebrity Person Search (Finished)**
   - Built an end-to-end pipeline for celebrity pedestrian retrieval in movies/TV, integrating state-of-the-art detectors and curating a 9k-image dataset with 80 celebrity categories and precise bounding-box labels.
   - Accelerated inference with C++ and TensorRT, delivering real-time performance at 21 FPS.

OTHERS

- **Language:** Fluent in English (IELTS 6.5).
- **Mathematics:** Secured a second-place prize in the National College Mathematics Competition in 2018.