

Zhengwentai Sun

+86 17285700640 | zhengwt.sun@connect.polyu.hk
WeChat: taited1079 | Personal Website: <https://taited.github.io>



Education Background

The Hong Kong Polytechnic University - MPhil	2022.01 - 2023.12
<ul style="list-style-type: none">GPA 4.13/4.3Research Student Scholarship	
University of Electronic Science and Technology of China - B.E. of Automation	2017.09 - 2021.06
<ul style="list-style-type: none">GPA 3.76/4.0Model Student Scholarship	

Publications

A 3D Virtual Try-on Method with Global-Local Alignment and Diffusion Model - Second Author	2023.12
<ul style="list-style-type: none">Accepted to ICASSP 2024 (CCF-B).Contribute to the design of a diffusion model aimed at enhancing the quality of marginal regions.	
SGDiff: A Style-Guided Diffusion Model for Fashion Synthesis - First Author	2023.05
<ul style="list-style-type: none">Accepted to ACM Multimedia 2023 (CCF-A).Proposed a diffusion-based method capable of incorporating text and style conditions together to control the synthesized clothing. More details on our project page.	
CoDE-GAN: Content Decoupled and Enhanced GAN for Flexible Fashion Editing - First Author	2023.01
<ul style="list-style-type: none">Under review of IEEE TCSVT (Q1)Developed a GAN-based image editing network. Improved the synthesized textures with 20% better FID. More details are on our project page.	
Automatic Segmentation of Organs-at-Risk from Head-and-Neck CT Using Separable Convolutional Neural Network with Hard-Region-Weighted Loss - Third Author	2021.01
<ul style="list-style-type: none">Accepted to Neurocomputing (Q2).Contributed to part of the ablation experiments and reviews on uncertainty estimation methods.	

Project

ChatGPT-Powered Role-Playing Game: Life-Reload Simulator - First Contributor	2023.09 - 2023.11
Responsible for a ChatGPT-powered role-playing game, Life-Reload Simulator, which received approximately 450 stars on Github. Detailed project information can be found here: https://github.com/EmbraceAGI/LifeReloaded	
Key Contributions:	
<ul style="list-style-type: none">Led game mechanics and workflow planning based on ChatGPT's features, abstracting game stages for a seamless gaming experience.Directed the design and planning of game prompt engineering, ensuring high-quality generation of game stories and processes in alignment with gameplay.Independently managed both frontend and backend functionalities of the game, utilizing techniques such as native H5, Redis, and FastAPI to enable asynchronous calls to the OpenAI API.	

Internship

Deep Learning-Driven UI Development - Algorithm Intern at Lightspeed Studios, Tencent Ltd.	2021.04 - 2021.09
Developed an innovative widget anchor prediction algorithm to streamline UI development.	
Key Contributions:	
<ul style="list-style-type: none">Engineered a robust UI structural information parser in Unreal Engine.Created a unique dataset for widget anchor prediction.Independently implemented and iteratively improved a novel deep learning model for this task.	

Skills & Others

- Competitions:
 - (2022.12) **6th Winner** in Jittor AI Competition. The project can be viewed [here](#).
 - (2020.05) **Meritorious Award** (Top 8%) in the Mathematical Modeling Contest (MCM/ICM)
- Open Source Contributions: Actively contributed to **MMagic (6.2k stars)** and **MMGeneration (1.7k stars)**
- Web Development Experience: Proficient in back-end development with hands-on experience in high-profile exhibition projects at **Centrestage 2022** and the **Hong Kong Museum of Art**
- Programming Language: Python, Matlab, C
- Deep Learning Framework: Proficient in PyTorch. Experience in Tensorflow, PaddlePaddle, Jittor
- Tools: Proficient in Git, Docker, Latex
- Language: **TOEFL 103**