Wenyi Mo

Phone: (86) 15815489499 | Homepage: https://mowenyii.github.io
E-mail: mowenyi@ruc.edu.cn | Github: https://github.com/Mowenyii
Google Scholar: https://scholar.google.com/citations?user=e3s9h8MAAAAJ
Address: No. 59 Zhongguancun Street, Haidian District Beijing, 100872, P.R. China

Education

Master of Artificial Intelligence *Renmin University of China* **Beijing, CN** *Sep. 2022 - Jul. 2025 (Expected)*
GPA (3.86/4.0) First-class Scholarship.
Bachelor of Computer Science *South China University of Technology* **Guangzhou, CN** *Sep. 2018 - Jul. 2022*
GPA (3.91/4.0) National Scholarship (Top 1%).

Research Interest

Image Generation Committed to achieving detailed control over content creation to ensure outputs closely match user specifications, such as text and masks, significantly improving realism and accuracy.

Publications

[1] **Wenyi Mo**, Tianyu Zhang, Yalong Bai, Bing Su, Ji-Rong Wen, Qing Yang. "Dynamic Prompt Optimizing for Text-to-Image Generation", IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024, accepted.

[2] **Wenyi Mo**, Tianyu Zhang, Yalong Bai, Bing Su, Ji-Rong Wen, Qing Yang. "Revisiting the Vital Impact of Cross Attention on Image Editing", In submission.

[3] Jiangmeng Li, Wenwen Qiang, Yanan Zhang, **Wenyi Mo**, Changwen Zheng, Bing Su, and Hui Xiong. "MetaMask: Revisiting Dimensional Confounder for Self-Supervised Learning", Thirty-sixth Conference on Neural Information Processing Systems (**NeurIPS**), 2022, pp. 38501–38515.

[4] Jiangmeng Li*, **Wenyi Mo***, Wenwen Qiang, Bing Su, and Changwen Zheng. "Supporting Vision-Language Model Inference with Causality-pruning Knowledge Prompt", In submission.

Completed Research Projects

Dynamic Prompt Optimizing for Text-to-Image Generation. *Sep 2023 - Nov 2023*

- Introduced the Dynamic Fine-Control Prompt (DF-Prompt) format for Text-to-Image diffusion models, enabling flexible and fine-grained image generation with word tokens, effect ranges, and importance levels.
- Developed Prompt Auto-Editing (PAE) method, using online reinforcement learning to optimize prompts into DF-Prompts.
- Demonstrated that PAE significantly enhances prompts, creating visually appealing, semantically aligned images.
- The corresponding paper was published on **CVPR2024** as a poster paper.

Honors & Awards

- China National Scholarship (Top 1%), 2019
- China National Encouragement Scholarship (Top 3%), 2021
- Renmin University of China Scholarship, 2023

Skills

- **Programming:** Python, C, C++, PyTorch, LaTeX