Haidong Wang

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🎓 Education

Sun Yat-sen University (SYSU), Shenzhen, China   2023 – present
Master student in Electronic and Information Engineering. (GPA expected by June 2026)

Sun Yat-sen University (SYSU), Shenzhen, China   2019 – 2023
B.S. in Intelligent Science and Technology. (GPA 3.6/4.0)

👥 Experience

Semantic Communication & Interpretable DNN. SYSU. Shenzhen, China   2023 – Present
Research Intern   Tutor: Dr. Shimin Gong

Brief introduction: Explore the AI-powered semantic transmission to enlarge the transmission capacity with limited resources.

- A physical neural network is built with intelligent meta-surfaces for image transmission.
- A semantic encoding method is designed enabling users to commit concurrent wireless transmission. Paper preview can be found in https://doi.org/10.48550/arXiv.2504.07498.
- The concept of truncated-DRL is proposed to solve potential hierarchical optimization problems.
- Explore the deployment of generative AI in semantic wireless transmission.

Web Novel Benchmark Project   Dec. 2024 – May. 2025
Main Contributor   Individual Projects

Brief introduction: Using the idea of LLM-as-judge, explore the application of LLM to quantify some difficult-to-measure indicators, assisting in the fine-tuning of LLMs and the cleaning of datasets.

- 40,000 web novel samples were scored from 8 different perspectives using DeepSeek-V3. The raw data can be found in https://huggingface.co/datasets/Oedon42/webnovelbench.
- A Qwen-2.5-7B was fine-tuned to distill the DeepSeek-V3 as a lightweight scoring mode
- More than 20 prevalent LLMs were tested using our benchmark. The webnovel benchmark can be found in https://doi.org/10.48550/arXiv.2505.14818 .

LLM Agent Design   Oct. 2024 – Nov. 2024
Main Contributor   Individual Projects

Brief introduction: Use LLM to build agents for collecting , cleaning and captioning image data, and construct open-source datasets.

- A dataset, containing 283 Thang-ka images, was built.
- Based on the collected images, a LoRA model of Stable Diffusion-xl was trained and can be found in https://huggingface.co/Oedon42/thangka-lora-xl.
- The fine-tuned SD-xl model can well follow special instructions, such as 'Avalokiteshvara'.

⚙ Skills

- Programming Languages: Python, Matlab, TypeScript
- Development: HFSS, CST, Llama Factory, Diffusers, Transformers

ℹ Miscellaneous

- HuggingFace: https://huggingface.co/Oedon42
- GitHub: https://github.com/OedonLestrange42
- Languages: English - CET 6 (IELTS results expected by Jul. 2025), Mandarin - Native speaker