

Minghao Guo



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in Minghao Guo

🌐 <https://minghaoguo20.github.io/>

Education

- 2020.09 – 2024.06  **B.S., Zhejiang University** Ocean Technology.
GPA: 90.19/100 (Rank: 8/142)
- 2022.09 – 2022.12  **Exchange, The Chinese University of Hong Kong** Computer Science.

Research Experiences





- 2023.07 – now  **Diffusion Model based Video Editing**
Mentor: *Prof. LinChao Zhu @ZJU CCAI lab* (intern)
I proposed a diffusion model based video editing method. Given a **texture reference image** and a **video sequence** as input, our method can **replace the texture of the video** with the texture of the reference image while preserving the structure of the video.
- 2023.02 – 2023.04  **Robust Sentence-Level Evaluation**
Cooperator: *Xiangru Tang, Yilun Zhao @Yale* (Remote RA)
To address the issue of **hallucinations and factual inconsistencies** in long text summary task in current language models, we proposed a set of solutions. The paper is currently under review.
- 2022.11 – 2022.12  **Voice Conversion**
Mentor: *Dr. Chuck-jee CHAU @CUHK* (AIST2010 class project)
We proposed a method for regenerating music based on some given music track. We use Multi-scale Multi-band DenseNet to separate the vocal and the background music, and then use the voice conversion method to change the two parts.
- 2022.07 – 2022.10  **Underwater Overlapping Fish Detection Study**
Mentor: *Prof. Hui Huang @ZJU* (SRTP)
Based on yolov5, we perform detection of underwater targets. Our work consists mainly in adding preprocessing, adding attention mechanisms and using pre-trained models.

Miscellaneous Experience

Scholarship

- 2022  **China Harbor Scholarship**
- 2021  **China National Scholarship**

Competition

- 2022  **First Prize** of Zhejiang Province Student Physics Innovation, Theory
- 2021  **Third Prize** of National Zhou Peiyuan University Mechanics Competition, Individual Competition
-  **First prize** in the National University Mathematics Competition, non-mathematics group
- 2020  **First prize** in the National University Mathematics Competition, non-mathematics group