

Siyu Xu

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Education

Shanghai Ocean University

Shanghai, China

BE in Software Engineering

Sep. 2017 - Jun. 2021

Research Interests

I'm broadly interested in Computer Vision and Machine Learning, and particularly interested in: (1) self-supervised/unsupervised learning (*e.g.*, generative adversarial network), (2) image/video enhancement problems (*e.g.*, color-correction, denoising, deblur, super-resolution, video interpolation *etc.*), (3) high-level recognition (*e.g.*, object detection and segmentation), (4) multimodal visual-language reasoning (*e.g.*, video captioning)

Experiences

Marine Ecosystem and Environment Laboratory, SHOU

Sep.2018 - Present

Research Assistant

- Advisor: Dir. Hongbo Zhao
- Research Interests: Machine Learning, Deep Learning.

Institution of Digital Ocean, SHOU

Oct. 2019 - Jan. 2020

Research Assistant

- Advisor: Prof. Wei Song
- Research on unpaired image enhancement in underwater.

Supercomputing Center, SHOU

Mar. 2019 - Dec. 2020

Assistant Engineer

- Mentor: Dir. Hongbo Zhao
- High Performance Computing, Deep Learning Distributed Training.

Awards

1st Place Award at Pre-training for Video Captioning Challenge in ACM Multimedia 2020

National Scholarship for Encouragement, Ministry of Education, China 2020

Publications

1. XlanV Model with Adaptively Multi-Modality Feature Fusing for Video Captioning

Yiqing Huang, Qiuyu Cai, **Siyu Xu**, Jianshen Chen

In Proceedings of the 28th ACM International Conference on Multimedia. 4600-4604.

[\[Paper\]](#)

Competitions

1. Pre-training for Video Captioning Challenge in ACM Multimedia, Jul. 2020

Keywords: *Video captioning, Vision-language reasoning, LSTM*

1st Place(Top 1%)

2. Zhijiang 2020 Artificial Intelligence Competition for Video Generation Challenge, Oct. 2020

Keywords: *Video interpolation, Denoising, No training data*

7th Place(Top 1%)

3. The First "Malanshan Cup" International Audio and Video Algorithm Optimization Competition, May 2020

Keywords: *Video Enhancement, Denoising, Deblur*

9th Place(Top 1%)