Yunfei Lu

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🎓 Education Background

Xidian University Xi'an, Shaanxi, China   Sept., 2019 – Now

Undergraduate Student

Major in Artificial Intelligence, School of Artificial Intelligence

Expected to graduate in Jun., 2023.

- GPA 3.9/4.0
- Ranking 1/157
- Weighted Average Score 92.3/100.0

⚖ Standardized Tests

- CET-4 628
- CET-6 661
- TOEFL 111

  Listening: 30, Reading: 30, Speaking: 22, Writing: 29
- GRE 332 + 4.0

  Verbal: 163, Quantitative: 169, Analytical Writing: 4.0

👥 Project Experiences

Research Experience   Jun. 2022 – Now

Advisor   Chaoli Wang, University of Notre Dame

StyleGAN-based Scientific Visualization

- Propose a StyleGAN1-based framework to tackle scientific visualization problems, like view synthesis.
- Modify the discriminator to enable it to calculate conditional probability with real or fake images and additional condition like the angle of view as inputs.
- Compare our method with existing baselines, including InsituNet, CoordNet, NeRV, to evaluate our method more comprehensively.
- Still working on the project to improve our method now. Hope to publish it in Mar., 2023.

Internship Experience   Aug. 2022 – Oct. 2022

Company   Vanyi Tech, wholly-owned subsidiary of Vanke Co., Ltd

Location   Science and Technology Park, Nanshan District, Shenzhen, China

Intelligent Synthesis of Colorful Architectural Plans

- Crop images from our collected dataset of colorful architectural plans to desired size and generate random masks for each image.
- Pretrain the CoModGAN-based model with images and generated masks to make it more adaptive to downstream tasks.
- Finetune our model to make it able to generate complete colorful architectural plans by adding details like vegetation, waters, branch ways, etc. by inputting incomplete architectural plans with only significant components containing buildings and main roads.

⚙ IT Skills

- Programming Language: Python > C/C++ > MATLAB
- Deep Learning Framework: PyTorch > TensorFlow

- Platform: Linux

♡ AWARDS & HONORS

National English Competition for College Students(Class C), Second Prize	Nov. 2020
China National Scholarship	Dec., 2020
Mathematics Competition of Chinese College Students, First Prize	Dec. 2020
Excellent Student of Xidian University	Apr. 2021
Second-class Academic Scholarship	Dec. 2021
Contemporary Undergraduate Mathematical Contest in Modeling, Provincial First Prize	Dec. 2021
Mathematical Contest in Modeling, Meritorious Winner	May 2022