Xinyue Zhang

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Education

Southeast University *Nanjing, China*

Bachelor of Electronic Science and Engineering *2017.09–2021(expected)*

- **Imperial College London** London, Britain — *Data Science Summer School from July to August in 2019.* Some basic knowledge like neural networks, edge computing and so on are introduced to us. Also, we are separated to several groups to finish our project about AI and big data. Because of the limited time, we just present ideas about AI's possible application in the future. Our group propose Surgical simulator, which simulates the environment of human body from different gender, ages and so on, and can show parameters like heart rate in real-time. This is a product benefit from big data, VR and AI, which can provide much more practical opportunities for doctor candidates than today.

Skills

Languages	Python, C, C++, matlab
Frameworks	PyTorch
Libraries	Opencv-python, PyQT, QT
Others	Basic knowledge in data structures and algorithm.

Competition and Project Experience

National Undergraduate Scientific Research Innovation Project *Nov. 2018 - present*

Team leader

We deploy style transfer algorithm in embedded devices called Jetson nano and show real-time results in Glasses. The original implementation of style transfer cannot run fast enough in Jetson nano, so we use tricks learned from MobileNet and cuda to decrease model's size from 1679241 to 16497 and speed fps(frame per second) up from 4 to 21. Also, we have one software copyright for Style Transfer Platform and one patent application has beed submitted. Furthermore, I deploy an interface for real-time style transfer[link]. Styles can be changed by pushing buttons. Code for style transfer learned from MobileNet can be found [here].

Zhejiang LAB CUP GLOBAL AI COMPETITION MOT track *Aug. 2019 - Sep. 2019*

No. 7 out of total 234 participates

I participate in the 2019 Zhejiang LAB CUP GLOBAL AI COMPETITION MOT(Multiple Object Tracking) track. We found that good detection results and good ReID(re-identification) feature Extractor have a big influence in tracking results. So we employed cascade rcnn trained on CrowdHuman dataset to detect pedestrians and train better ReID network. Then we use deepsort algorithm to associate object acorss different frames. We achieved No. 7 out of total 234 participates. And also, in the final round, our algorithm achieved No.4.

Southeast University's 13th smart car competition *Nov. 2018 - Mar. 2019*

Third Prize

We use PID(proportion, integral and differential) algorithm to control Electromagnetic smart car. After implementing algorithm in C, we fine-tune each parameter to achieve better results.