Jiaxu Ma
Master, Computer Science

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EDUCATION

Shanghai Jiao Tong University Sept. 2016 - Mar. 2019
Master of Engineering, Computer Science **GPA**: 3.88/4.0
Interests: **Computer Vision and Artificial Intelligence** Advisors: Prof. Cewu Lu

Nanjing University Sept. 2012 - Jun. 2016
Bachelor of Science, Physics **GPA**: 4.5/5.0

WORKING EXPERIENCES

Yitu Tech Algorithm Engineer, Apr. 2019 - Now
- Ranked 1st in an internal car detection competition
- Improved streaming speech recognition system performance
- Provided technical support for special customers, namely improving speech recognition performance performance in special scenes

Flexiv Robotics, Ltd. Intern, May. 2018 - Mar. 2019
- Implemented the 2017 CVPR paper Polygon-RNN in pytorch code ⌗
- Constructed a label system with auto assistance
- Completed a keypoint detection system for industrial robot

PUBLICATION

Fast Surface Defect Detection Using Gabor Filters
Jiaxu Ma, Yuxi Wang, Chen Shi, Cewu Lu
International Conference on Image Processing (ICIP) 2018.
- Designed a defect detection system composed of Gabor filtering, hysteresis thresholding, region grouping and noise removal
- Achieved nearly real-time performance for realistic scratch detection and crack detection

Annotation-Free and One-Shot Learning for Instance Segmentation of Homogeneous Object Clusters
Zheng Wu, Ruiheng Chang, **Jiaxu Ma**, Cewu Lu, Chi-Keung Tang
International Joint Conferences on Artificial Intelligence (IJCAI) 2018.
- Synthesized clustering images based on the optimization objectives
- Trained a deep learning segmentation model for synthesized images

PROGRAM EXPERIENCES

Accurate parts localization Nov. 2016 - Apr. 2017
- Implemented the well-known Structured Edge Detection Toolbox in c++ code ⌗
- Constructed a parts localization system

HONORS AND AWARDS

Graduate Student Scholarship, Grand Prize **(Top 30%)** 2016, 2017, 2018
Honorable Winner of The Mathematical Contest in Modeling **(Top 25%)** 2014
Industrial Bank Scholarship **(Top 5%)** 2013

PROGRAMMING PROFICIENCIES

C / C++, Python
TensorFlow, PyTorch, Torch