

JIA XU MA

MASTER, COMPUTER SCIENCE

✉ alexma@sjtu.edu.cn

🏠 jiaxuma.com

☎ +86-17602163115

EDUCATION	Shanghai Jiao Tong University	Sept. 2016 - 2019 (expected)
	<i>Master of Engineering</i> , Computer Science Interests: Computer Vision and Artificial Intelligence	GPA: 3.88/4.0 Advisors: Prof. Cewu Lu
	Nanjing University	Sept. 2012 - Jun. 2016
	<i>Bachelor of Science</i> , Physics	GPA: 4.5/5.0
PUBLICATION	Fast Surface Defect Detection Using Gabor Filters	
	Jiaxu Ma, Yuxi Wang, Chen Shi, Cewu Lu <i>International Conference on Image Processing (ICIP)</i> 2018.	
	Annotation-Free and One-Shot Learning for Instance Segmentation of Homogeneous Object Clusters	
	Zheng Wu, Ruiheng Chang, Jiaxu Ma, Cewu Lu, Chi-Keung Tang <i>International Joint Conferences on Artificial Intelligence (IJCAI)</i> 2018.	
EXPERIENCES	Defect detection on surfaces of industrial products	Aug. 2017 - Feb. 2018
	<ul style="list-style-type: none">- Improved Gabor filters and some morphological image processing skills- 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	
	Instance Segmentation of Homogeneous Object Clusters	Jan. 2017 - Dec. 2017
	<ul style="list-style-type: none">- Synthesized clustering images based on the optimization objectives- Trained a deep learning segmentation model for synthesized images	
	Accurate parts localization	Nov. 2016 - Apr. 2017
	<ul style="list-style-type: none">- Implemented the well-known Structured Edge Detection Toolbox in c++ code 🔗- Constructed a parts localization system based on object detection(EdgeBoxes), object classification(AlexNet), image matching(SiftFlow) and object tracking(KCF) methods	
HONORS AND AWARDS	Predictions on the fluctuation in the stock market	Nov. 2015 - Mar. 2016
	<ul style="list-style-type: none">- Compared several basic models in machine learning, like SVR(Support Vector Regression), NN(Neural Network), HMM(Hidden Markov model), on the stock market data- Predicted the fluctuation in the stock market using SVR	
	Graduate Student Scholarship, Grand Prize (Top 30%)	2016, 2017
	Honorable Winner of The Mathematical Contest in Modeling (Top 25%)	2014
	Industrial Bank Scholarship (Top 5%)	2013
	Elite Scholarship (Top 15%)	2013, 2015
PROGRAMMING PROFICIENCIES	C / C++, Python, MATLAB, \LaTeX	
	OpenCV, TensorFlow, PyTorch, Torch	