Mengqing Jiang

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Education

Carnegie Mellon University, Pittsburgh, PA, USA   2018 - Dec. 2019(expected)

Master of Science in Computer Vision (MSCV) at Robotics Institute, School of Computer Science

- **In-progress Coursework:** Computer Vision • Introduction to Machine Learning • Math Fundamentals for Robotics

Tsinghua University, Beijing, China   2014 - 2018

*Bachelor of Engineering in Software Engineering | GPA: 90/100 **top 10%***

- **Selected honors:** Graduation with distinction 2018 • Science and Technology Innovation Scholarship 2017 • National Scholarship 2016 • WeTech Qualcomm Global Scholarship 2015
- **Selected Coursework:** Software Engineering • Data Structure & Advanced Algorithms • Multimedia (Computer Vision, Audio and Video) • Data Mining and Information Retrieval

Professional Experience

Momenta, Beijing, China   Mar 2018 - July 2018

Engineer Intern

- Simulated Lincoln MKZ dynamics on Unreal Engine 4 with CarSim plugins.
- Conducted Large-scale automated safety tests for the auto pilot algorithms on Unreal Engine 4.
- Investigated active sub-lane changing algorithms for autonomous car in the case of traffic congestion.

SenseTime Inc., Beijing, China   Jun 2016 - Dec 2016

Computer Vision Engineer Intern

- Reproduced computer vision baseline deep models, e.g. Faster-rcnn, RFCN (object detection), ResNet (image classification), FCN, DeconvNet, DeepLab (image segmentation) etc.
- Assisted in hand gesture detection project and human body semantic segmentation project.

Research Experience

Berkeley DeepDrive, UC Berkeley, CA, USA   Jun 2017 - Dec 2017

Undergraduate Research Assistant under Professor Trevor Darrell

- Research topic: Imitated Control for Vehicle Pedestrian Interaction.
- Implemented pedestrian detector using LiDar point cloud.
- Built up experimental system based on ROS for self-driving car, including visualization dashboard, camera & LiDar calibration tools, motion2control APIs, etc.

Deep Coding Group, HKUST, Hong Kong   Dec 2016 - May 2017

Undergraduate Research Assistant under Professor Sung Kim (remotely)

- Research topic: Doodle2Code—CNN+LSTM based HTML Code Generation Given Hand-written Webpage Doodles.
- Built a large-scale web screenshot dataset and collected hand-written webpage doodles; then conducted experiments on both datasets and achieved promising performance on the doodle dataset using transfer learning.
- Developed a website for online Doodle2Code converting.

Publications

- Fei Wang, **Mengqing Jiang**, Chen Qian, Shuo Yang, Cheng Li, Honggang Zhang, Xiaogang Wang, Xiaoou Tang, "Residual Attention Network for Image Classification", CVPR 2017 *(spotlight)*
- Shifeng Zhang, Jianmin Li, **Mengqing Jiang**, Bo Zhang, "Scalable Discrete Supervised Multimedia Hash Learning with Clustering", IEEE TCSVT 2017

Selected Academic Projects

Face Retrieval System Using Residual Attention Network |Course project	Fall 2017
SNP Set Analysis for Detecting Disease Association Using Ant Colony Algorithm | Course project	Fall 2017
B+ Tree Index Enhanced HSQLDB | Course project	Spring 2017
WeLearn (a WeChat web application) | Course project	Fall 2016
Video Clip Classification based on Deep Learning | Student Research Training	Spring 2016
Content based Music Recommendation System | Course project	Fall 2015

Skills

Programming languages: Python • C/C++ • HTML/CSS/Javascript • Matlab

Tools: ROS • PyTorch • Caffe • Tensorflow • Django • Qt