Qi Rao

Contact

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Experience

Nov 2017 - Current — Researcher at SenseTime,Beijing
Work as full-time researcher under supervision of Dr.Xingyu Zeng. Responsible for ConvNet models deploying including 2d detection, landmarks, face direction,etc. Also concentrate on research about object detection and instance segmentation.

Jun 2017 - Sept 2017 — Research Intern at Seetatech,Beijing
Worked as full-time intern under supervision of Dr.Jie Zhang and Prof.Shiguang Shan. Help to remove waterwave on document photos with deep convolutional networks. Efficiently improve face detector's performance. Projects finished by myself went into production system.

Jan 2016 - Jun 2017 — Research Intern at ICT, Chinese Academic of Science
Multimedia Group
Researched in visual tracking field, in particular human tracking, with emphasis on speed accelerating and performance improving. Familiar with basic deep learning knowledge and tools.

June-Sept 2015 — Research Intern at Tsinghua University
Division of Computer Science And Technology
Worked as a research intern with Yutian Li. Took part in innovative projects , with focus on problems about self-configuration, load balance. Became interested in machine learning technologies.

Education

Sept 2018 or later - — Ph.D candidate
University of Technology Sydney
Under supervision of Prof.Yi Yang. I am in gap year due to the VISA delay.

Aug 2013 - Jun 2017 — Bachelor of Science(Engineering) with Honours, E-Commerce
Electronic Engineering and Computer Science
Queen Mary University of London
with Honours - Second Class(Upper Division)

Aug 2013 - Jun 2017 — Bachelor of Engineering, E-Commerce Engineering
Beijing University of posts and telecommunications
Overall GPA:87.42, ranking: 4/172

Projects

WaveNet — *Deep fully-convolutional network for waterwave removal*
Designed a deep fully-convolutional network for the specific task of removing waterwave on document photoes, whose architecture combined the FCN and ResNet-101. Experiments evaluated with different loss function design, including pixel-wise loss , perceptual loss and GAN. This work improved the performance of face detection and finally went into production system.

MDNet+ — *An improved tracking framework for human target*
Reimplemented MDNet with Caffe. Accelerated the online tracking speed. Imp -roved human tracking representation ability with supplementary training on self-built dataset.

PoseDetector — *Human pose detection and reminding system*
Obtained the skeleton information by 3d camera, implemented self-refinement algorithm to judge human pose in real-time.

Olrenting — *A generic E-commerce online shopping framework*