

JINCHANG XU

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EDUCATION

Beijing University of Posts and Telecommunications

Sep. 2016 - present

M.S. in Information and Communication Engineering

Major in Computer Vision and Deep Learning

Supervisor: Prof. Yuan Dong. Lab: PRIS

GPA: 87.96/100. Rank: 12/710

Beijing University of Posts and Telecommunications

Sep. 2012 - Jul. 2016

B.S. in Applied Physics

Ye Peida experimental class

GPA: 89.45/100. Rank: 2/60

SCHOLAR COMPETITIONS

New Trends in Image Restoration and Enhancement(NTIRE) on Super Resolution Challenge (5/110) 2018

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshop, organized by Computer Vision Laboratory.

Visual Domain Adaptation Challenge Classification (3/65) 2017

- IEEE International Conference on Computer Vision (ICCV) Workshop, organized by Stanford University.

ChaLearn LAP Real Vs Fake Expressed Emotion Challenge (5/60) 2017

- IEEE International Conference on Computer Vision (ICCV) Workshop, organized by ICV team.

ImageNet Large Scale Visual Recognition Challenge (ILSVRC) (6/20) 2017

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshop, organized by Stanford University.

The Third Big Data Competition (13/1400) 2017

- organized by Baidu Co., Ltd. and Xi'an Jiao Tong University.

RESEARCH EXPERIENCE

Image Super Resolution

Mar. 2017 – Present

- Implemented the image super resolution based on the convolutional neural networks.
- Obtained the fastest speed time on 2nd NTIRE with higher PSNR.
- Implemented face hallucination, face deblur, face inpainting and face denoising based on generative adversarial network and auto decoder networks.

Landmark Detection

Nov. 2016 – Mar. 2017

- Implemented the cascaded convolutional neural networks to detect 68 facial landmarks.
- Obtained real time detection on mobile device.

Liveness Detection

Mar. 2016 – Nov. 2016

- Implemented the liveness detection system.
- Achieved the 98% accuracy on the publicly liveness detection datasets.

WORK EXPERIENCE

Tencent Co., Ltd.

Mar. 2018 -Present

Research Assistant on WXP

- Implemented the real-time image super resolution.

- Engaged in liveness detection, landmark detection, emotion recognition, super resolution, generative adversarial network, transfer learning and deep learning.
- Implemented three paper and four patents.

PUBLICATIONS

Xu J, et al. Face Hallucination with Ting Images in Surveillance by Wasserstein GANs. Submitted
Xu J, Dong Y, Ma L, et al. Video-based Emotion Recognition using Aggregated Features and Spatio-temporal Information[C]// 24th International Conference on Pattern Recognition (ICPR). 2018. Accepted
Xu J, Zhao Y, Dong Y, et al. Fast and accurate image super-resolution using a combined loss[C]//The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops. 2017. Published

PATENTS

A face reconstruction method and system based on generative adversarial network, [P], CN107730458A, 02/23/2018.

A quiet and silent liveness detection method and system, [P], CN107609494A, 01/19/2018.

A super resolution method and system based on deep learning, [P], CN107578377A, 01/12/2018.

A liveness detection method based on face recognition, [P], CN106845395A, 06/03/2017.

HONORS and AWARDS

First-class Graduate Scholarship, Beijing University of Posts and Telecommunications	2016-2018
Excellent Graduate Students(top 5%), Beijing University of Posts and Telecommunications	2016-2017
National Encouragement Scholarship, the Ministry of Education, China	2013-2015
Enterprise Scholarship, Bright Oceans Corporation	2013-2016
Excellent Students Award, Beijing University of Posts and Telecommunications	2013-2015
Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM), Second Prize	2014

TEACHING EXPERIENCE

EBU723U

Sep. 2017 – Jan. 2018

Teaching assistant of QM-BUPT joint programme module including image processing and multimedia systems directed by Yi-Zhe Song, Associate Professor from the school of Computer Science, Queen Mary University of London.

PROFESSION SKILL

Good knowledge of machine learning, deep learning and image processing.
Deep Learning frameworks: Caffe/Tensorflow/Pytorch.
Programming: C/C++, Python, Matlab, Shell, Git, Vim, L^AT_EX.
Visual Libraries: OpenCV.
Platform: Linux, Windows.