

JINCHANG XU

☎ (+86) 188-1131-5302 ✉ xjc1@bupt.edu.cn 🌐 github.com/xujinchang

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

FashionAI Global Challenge (4/5272) Geek Award

2018

- organized by Alibaba Group.

6th Emotion Recognition in the Wild Challenge (2/100)

2018

- ACM International Conference on Multimodal Interaction (ICMI) 2018, organized by Indian Institute of Technology.

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

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) Honorable Mention Award

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.

Apr. 2018 -Present

Research Assistant on WXG

- Implemented the real-time image super resolution called multi-scale residual pyramid network.
- Implemented text recognition using CNN, LSTM and CTC loss.

Beijing FaceAll Co., Ltd.

Mar. 2016 - Apr. 2018

Research Assistant

- 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. Multi-scale Residual Pyramid Network for Image Super Resolution[C]//14th Asian Conference on Computer Vision (ACCV).2018 Submitted

Xu J, et al. Face Hallucination with Ting Images in Surveillance by Wasserstein GANs[C]//14th Asian Conference on Computer Vision (ACCV).2018 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.