

Education

### **CASIA (Institute of Automation, Chinese Academy of Sciences)**

Beijing, China

PHD IN COMPUTER VISION AND DEEP LEARNING

Sep. 2015 - Present

• GPA: 3.67/4

NJU (Nanjing University)

Nanjing, China

B.S. IN SOFTWARE ENGINEERING

Sep. 2011 - Jun. 2015

• GPA: **3.87**/4 Rank: **5**/257

### Research \_

#### Fast End-to-End Trainable Guided Filter

Nov. 2017

PROJECT WEBSITE (TO BE APPEARED IN CVPR 2018)

A universal CNN module for constructing faster, lighter and better dense prediction networks.

### A2-RL: Aesthetics Aware Reinforcement Learning for Image Cropping

Sep. 2017

PROJECT WEBSITE (TO BE APPEARED IN CVPR 2018)

An algorithm for image auto-cropping with deep reinforcement learning.

#### **GP-GAN: Towards Realistic High-Resolution Image Blending**

Mar. 2017

PROJECT WEBSITE

An algorithm for image blending with GANs.

### **CNN-CUT: A Weakly Supervised Way for Image Segmentation**

Jun. 2016

Course Project

An algorithm for saliency object segmentation by combining a pretrained network on ImageNet and Grab Cut.

#### **Deep Active Learning**

May. 2015

B.S. THESIS PAPER

Train a CNN with comparable accuracy using less than 10% examples selected by active leaning.

# Project \_

**Face Swap** 

Jan. 2018

PROJECT WEBSITE

Swap face between two photos with Python 3, OpenCV and dlib.

### MSC: A Dataset for Macro-Management in StarCraft II

Sep. 2017

PROJECT WEBSITE

A dataset for macro-management in StarCraft II based on PySC2.

### Chainer implementation of Pix2Pix

Mar. 2017

PROJECT WEBSITE

Chainer implementation of Image-to-Image Translation Using Conditional Adversarial Networks

### Chainer version of neural-style and fast-neural-style

Mar. 2017

PROJECT WEBSITE

Chainer implementation of A Neural Algorithm of Artistic Style and Perceptual Losses for Real-Time Style Transfer and Super-Resolution

### Chainer implementation of realismCNN

Mar. 2017

PROJECT WEBSITE

Chainer implementation of realismCNN proposed in Learning a Discriminative Model for the Perception of Realism in Composite Images

#### **RoboWaiter: A Robot for guest registering**

Jan. 2014

RIGHT ID: 201410500366.5

A robot for guest registering by face recognition and speech recogintion.

MARCH 16, 2018 HUIKAI WU · RÉSUMÉ

### Fast image inpainting application on Android

Jan. 2014

PUBLISHED

An Android application for image inpainting and object removal with 2x speed-up.

### Honors & Awards \_\_\_\_

#### INTERNATIONAL

2017 4th Place, StarCraft Competition in AIIDE 2017, beat Facebook's team.

#### **DOMESTIC**

RESEARCHER

2016 **1st Place**, CCF Big Data Competition: Movie Box Prediction.

## Work Experience \_\_\_\_\_

### **Palmwin Information Technology**

Researcher

Aug. 2015 - Oct. 2015

- Website: http://www.chatgame.me/en/
- Write a survey about SLAM and AR.

### **NLPR (National Laboratory of Pattern Recognition)**

Beijing, China Dec. 2014 - Apr. 2015

Nanjing, China

• Website: http://www.nlpr.ia.ac.cn/nlpren/EN/volumn/home.shtml

• Design and implement a car recognition system with 95% accuracy.

MARCH 16, 2018 HUIKAI WU · RÉSUMÉ