ZHOUYINGCHENG LIAO

CONTACT INFORMATION

Address 800 Dongchuan Rd,

Shanghai, 200240, China

Mobile Phone (+86) 15821183231

E-mail Homepage patrickliao2007@gmail.com patrickliao2007.github.io

RESEARCH INTERESTS

My research interests are in the area of computer vision, deep learning. I did research on object detection and face recognization before. Currently, I am also interested in various topics in computer vision and robotics (e.g., 3D vision, reinforcement learning), intending to do research in a specific topic in the future.

EDUCATION

Shanghai Jiao Tong University

Undergraduate Student

- · School of Cyber Security
- · School of Eletronic Information and Electrical Engineering
- · Overall GPA: 87.6/100

RESEARCH EXPERIENCE

Shanghai Jiao Tong University

Undergraduate Researcher

· Advisor: Prof. Bingbing Ni

- · Face detection, face recognization
- · Object detection
- · Self-supervised learning

PUBLICATIONS

Uniface: A Unified Network for Face Detection and Recognition

Accepted by the 24th International Conference on Pattern Recognition. ICPR 2018

· Zhouyingcheng Liao, Peng Zhou, Bingbing Ni

- · A bottom-up/top-down structure is adopted to combine face detection and recognization
- · An attention mechanism is adopted to replace face alignment
- · A single-network model, i.e. Uniface network is proposed which achieves the accuracy of 99.0% on LFW

Live Face Verification with Multiple Instantialized Local Homographic Parameterization Accepted by the 27th International Joint Conference on Artificial Intelligence. IJCAI 2018

- · Chen Lin, Bingbing Ni, **Zhouyingcheng Liao**, Peng Zhou and Jianguo Hu
- · A model which could classify live facial sequence and recorded facial sequence is proposed
- · Due to local homography property of recorded facial sequence, a transformation network is embedded in the model
- · Each image is divided into several patches and multiple instance learning is applied

Sep, 2015 - Present

Apr, 2017 - Present

[slide]

PROJECTS

A simple Windows ftp client/server based on Qt

[link]

- · Course project of Computer Network
- · Most common commands including USER, PASS, SYST, FEAT, PWD, TYPE, PASV, LIST, NLST, CWD, CDUP, MDTM, SITE, QUIT, STOR, DELE, RMD, RNFO, RNTO, MKD are implemented

SCM line-tracking car based on computer vision

[link]

- · I served as group leader and wrote all codes
- · The computer constantly captures the line and the car by a camera
- · The frames are processed by OpenCV to calculate relative position of the car to the line
- · The computer controls the SCM car through bluetooth

AWARDS

MCM/ICM 2017 Problem E Meritorious Winner

Feb, 2017

· Zhouyingcheng Liao, Ziping Liu and Qiucheng Wu, Advisor: Fan Wu

31st Chinese Physics Olympiad (Jiangxi Province) First Prize

Sep, 2014

· Rank: 21^{st}

SKILLS

Programming	Python $2/3$
Language	C/C++
	Verilog
	Tex
Deep Learning	MXNet
Library	Pytorch
	Tensorflow