ZHOUYINGCHENG LIAO

CONTACT INFORMATION

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RESEARCH INTERESTS

My research interests are in the area of computer vision, deep learning. I did research on object detecion 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   Sep, 2015 - Present
Bachelor

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

RESEARCH EXPERIENCE

Shanghai Jiao Tong University   Apr, 2017 - Present
Undergrad Researcher

· Advisor: Prof. Bingbing Ni
· Face detection, face recognization
· Object detection
· Self-supervised learning

PUBLICATIONS

Uniface: A Unified Network for Face Detection and Recognition   [slide]
In Proceedings of 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

UNDER-REVIEW PAPERS

Live Face Verification with Multiple Instantialized Local Homographic Parameterization
IJCAI 2018 submission

· 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

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: 21st

SKILLS

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