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Ziniu Liu

UNDERGRADUATE, COMPUTER SCIENCE, FDU

EDUCATION

Fudan University(FDU), Shanghai, China   *Sept.2017 - Jun.2021 (Expected)*
Bachelor of Engineering, Computer Science and Technology
GPA: 3.51/4; (top 25% in department)
Core Courses: • Mathematical Analysis • Linear Algebra • Set Theory and Graph Theory • Introduction to Database System • Introduction to Computer System • Introduction to Algorithms • Introduction to Artificial Intelligence • **Pattern Recognition(all in English)** • Digital Image Processing • Computer Vision • Natural Language Processing.

PUBLICATION

Person-level Action Recognition in Complex Events via TSD-TSM Networks
Yanbing Hao, **<u>Ziniu Liu</u>**, Hao Zhang, Jingjing Chen
ACM Multimedia (MM) 2020

RESEARCH EXPERIENCES

Computer Vision Group, Fudan University
Supervisor: Prof. Yugang Jiang, Dr. Hao Zhang, Dr. Jingjing Chen   *Sept.2019 - Present*

- *Helped implement and test a novel architecture for AVA actions detection based on I3D and Temporal Shift Module.*
- *Proposed and implemented a novel three-stream architecture for video action detection.*
- *Create a new video description model using relation and distance to improve performance.*
- ***Won third place in ACM MM Grand Challenge as a team member.***

INTERNSHIP

Shenzhen Wisonic Co., Image Algorithm Intern
Supervisor: Bing Yao, technical director of AI group   *Jul. 2019 - Sept. 2019*

- *Implemented a neural network for OB's index plane ultrasonic images' classification.*
- ***Developed a module for getting saliency maps from feature maps back-propagation.***
- *Researched and implemented a capsule network.*

AWARDS & ACHIEVEMENTS

2020 Outstanding Member of FDU (top 10%)
2020 Third Prize for Excellent Student Award
2019 Third Prize for Excellent Student Award
2018 Third Prize for Programming Competition of FDU

PROJECTS EXPERIENCE

MiniCovidNet for COVID-19
By Pytorch
Description: *A self-designed Lightweight Neural Network on chest X-ray images for COVID-19 detection.*

Second-hand Information Exchange Platform
By JavaScript & Wechat Mini Program
Description: *Develop a second-hand information exchange platform as team leader. This App is designed for Fudan University's students and is greatly welcome.*

Books Reader(*Github Link*)
By Python & Socket
Description: *A Book Reader that has server-side and client-side communicate by network. GUI is based on Tkinter and encryption transmission is based on Crypto.*

CAMPUS EXPERIENCE

Student Union of Fudan University
Position: Manager of Zhangjiang Campus office.   *Mar. 2019 - Jun. 2019*

- *Organized and anchored the third "Voice of Zhangjiang Campus" singing competition.*
- *Participated in conducting "Zhangjiang Campus Cup" basketball game.*

School of Computer Science, Fudan University

Position: Deputy Head of Sports and Arts Dept.   *Sept. 2018 - Present*

    - Participated in organizing School of Computer Science's sports meeting.

    - Contact person in class for competition of University.

SKILLS

Programming Languages: C, C++, Python, LaTeX, Matlab
Deep Learning Framework: Pytorch
English Test: TOEFL 100

EXTRA
INTERESTS

Subjects: History, Philosophy, Economics
Hobbies: Basketball, Swimming