

Zedong Chu

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EDUCATION

University College London

Msc Integrated Machine Learning System

- English Proficiency: IELTS 6.5 (speaking: 6.5)

London, UK
Sep 2020 - Sep 2021

Beijing Jiaotong University

BEng Software Engineering

- GPA: 3.52/4.00

Beijing, China
Sep 2016 - Jun 2020

PROFESSIONAL EXPERIENCE

King's College London *Research Assistant*

- Project: Remote sensing and machine learning to detect global dams and associated reservoirs.

Feb 2020 - now

Baidu *PPDE (Paddlepaddle Developer Expert)*

- Publish technical articles on the PaddlePaddle WeChat official account.
- The reviewer of the 15th National Collegiate Smart Car Competition.
- Contribute code to the open-source community.

Awarded in Aug 2020

TSINGHUA UNIVERSITY *Research Assistant*

- Temporal Action Detection algorithm research.
- Gait Recognition algorithm research.

Oct 2019 - May 2020

BEIJING e-Hualu INFORMATION TECHNOLOGY CO., LTD *R&D Engineer*

- Back-end development of urban data lake online storage platform.

Jan 2019 - Mar 2019

PROJECT WORK

Learning Effective Representations from Global and Local Features for CrossView Gait Recognition

- In this paper, we propose a novel feature extraction and fusion framework to achieve discriminative feature representations for gait recognition.
- Extensive experiments demonstrate that our proposed method outperforms state-of-the-art gait recognition methods on popular widely-used CASIA-B and OUMVLP datasets.
- This paper has been submitted to "Computer Vision and Pattern Recognition 2021".

ST2plus3D: Spatial temporal 2D plus 3D Transformation for cross-view Gait Recognition

- we propose a novel spatial-temporal 2D plus 3D transformation framework for cross-view gait recognition, called ST(2+3)D.
- Experiments show that our proposed method not only is more robust in changing external conditions but also shows a state-of-the-art performance under normal walking conditions.
- This paper has been submitted to "IEEE Transactions on Image Processing".

Temporal Action Proposal Generation Based on Attention Mechanism

- I propose a novel mechanism module in temporal action detection problem, which is suitable to be placed in the video feature extraction stage.
- The final effect of the experimental indicator on the ActivityNet-1.3 dataset increased from 67.1% to 67.8%.
- This paper has been awarded as "Excellent Graduation Thesis in Beijing".

Cross-View Gait Recognition Based on Spatial and Temporal Fusion and Transferred 3D CNN

- This paper proposed a novel cross-view gait recognition method based on the combination of the spatial fusion model and the temporal fusion model under the 3D Convolutional Neural Networks (CNN) framework.
- This paper submitted to "Pattern Recognition" has been rejected temporarily, but we will still continue working on it and resubmit it.

Traveller: a Q/A System based on deep learning

- Built an intelligent dialogue system for transportation with deep learning and natural language processing technology based on internet data.
- Achievement: National Innovation Training Programme of College Students BJTU, 2019; a computer software copyright named "Traveller Chatbot System"; the 18th place in the IBM Watson Assistant Competition, 2018

Visual Object Tracking System based on deep learning

- Awarded as School Level Innovation Training Programme of College Students BJTU, 2018.

Other competition/course group projects under my leadership

- Campus Life Intelligent Management System; Career Planning and Learning System; Smart Pension System; Intrusion Detection System Based on Real-time Video Analysis; Contract Management System; My-Instagram; Animal Pexeso.

HONORS & AWARDS

- The Bronze Medal of the 43rd ACM International Collegiate Programming Contest (ICPC) Asia Regional Contest
- The Second-class Prize of the 10th China College Students Service Outsourcing Innovation and Entrepreneurship Competition
- The Third-class Prize of the 9th China College Students Service Outsourcing Innovation and Entrepreneurship Competition
- The First-class Prize of Programming Competition BJTU
- Excellence Scholarship of BJTU
- Outstanding Scholarship Awards in Science Competition
- Outstanding Student Leaders Award
- Second Prize Scholarship for Social Work
- Outstanding Scholarship for Artistic Activities