Personal Page: https://weiguopian.github.io
Github: https://github.com/weiguoPian
Email: pwg@cqu.edu.cn

Curriculum Vitae

Weiguo Pian

EDUCATION

2021.11 - 2025.11
- Ph.D. in Computer Science, University of Luxembourg
  - Advisor: Prof. Tegawendé F. Bissyandé

2018.9 - 2021.6
- Master of Vehicle Engineering, Chongqing University
  (Collaborative education with the School of Big Data & Software Engineering)
  - Advisor: Prof. Yingbo Wu

2014.9 - 2018.6
- Bachelor of Software Engineering, Chongqing University

RESEARCH INTERESTS

Deep Learning, Spatial-Temporal Data Mining, Code Representation Learning, Computer Vision

POSITIONS

2020.6 - 2020.12
- Computer Vision R&D Intern at Baidu.

PUBLICATIONS

2021
- 骈纬国, 吴映波, 陈蒙, 蔡俊鹏. 一种基于时空动态图注意力网络的共享出行需求预测方法 [J]. 电子学报.

2020
- Weiguo Pian, Yingbo Wu, Xiangmou Qu, Junpeng Cai and Ziyi Kou, *Spatial-Temporal Dynamic Graph Attention Networks for Ride-hailing Demand Prediction*, *arXiv:2006.05905.*

2020
- Weiguo Pian, Yingbo Wu, and Ziyi Kou, *STDI-Net: Spatial-Temporal Network with Dynamic Interval Mapping for Bike Sharing Demand Prediction*, *29th ACM International Conference on Information and Knowledge Management (CIKM2020) workshop.*

COMMUNITY SERVICES

ECML-PKDD 2020, PC member

RESEARCH EXPERIENCE

2018
- [UGRD Thesis] **Visualization of Exercise Rehabilitation Program**
  - Description: This project aims to collect the physiological parameters of patients based on the existing medical management system, and visualize them with the exercise rehabilitation program.
  - Advisor: Prof. Yingbo Wu

2019
- **Machine Learning-based Shared Transportation Demand Prediction**
  - Description: This project aims to propose a novel machine learning-based method to provide decision-making for resource (vehicles or bikes) scheduling in shared transportation.
  - Advisor: Prof. Yingbo Wu
  - Outcome: A novel deep learning-based spatial-temporal model was proposed for the spatial-temporal data prediction task.

2020
- **GNN-based Taxi Demand Prediction**

- Description: This project aims to propose a new deep learning-based (GNN) method to further reduce the prediction error of the taxi demand prediction task, and utilize the open dataset from the ride-hailing platform (Didi Chuxing) to evaluate the performance of our proposed method.
- Advisor: Prof. Yingbo Wu
- Outcome: A new GAT (Graph Attention Network)-based dynamic graph sptial-temporal network was proposed for taxi demand prediction.

2020 • [Intern] **Fine-grained Video Understanding**
- Description: This project aims to improve the search accuracy for videos with fine-grained tags in video search. In this project, we collect short videos and label them with fine-grained tags to build a large scale dataset. After that, a cross-modality model is used to learn the joint feature from both video and text content, for fine-grained video recognition.
- Responsible for: Fine-grained action video collection and recognition.
- Advisor: Chao Wang (Senior R&D Engineer of Computer Vision at Baidu)

PROGRAMMING SKILLS

Programming languages: Python, Java, C#, C

Deep learning and machine learning packages: PyTorch, Keras, Sklearn

Other skills: LaTeX

AWARDS AND HONORS

2018 • Outstanding Undergraduate Student of Chongqing University

2018 • Outstanding Engineer Student of Ministry of Education, China

2018 • A-Class Scholarship for Graduate Students of Chongqing University