

Wei Liu

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EDUCATION

Sep 2020- Jul 2023 (expected)	Northwest University (NWU, Project 211) <i>Advised by Prof. Li Chen</i> <i>Master in software engineering (Working at machine learning, deep learning, multi-objective optimization, evolutionary computation)</i>
Sep 2016- Jul 2020	Taiyuan University of Technology (TYUT, Project 211) <i>B.eng in software engineering</i>

PUBLICATIONS

2022	Wei Liu, Li Chen, Xingxing Hao, Wei Zhou, Xin Cao, and Fei Xie. Offspring Regeneration Method Based on Bi-Level Sampling for Large-Scale Evolutionary Multi-Objective Optimization. Swarm and Evolutionary Computation(2022) 101152. https://www.sciencedirect.com/science/article/pii/S2210650222001201
2022	Wei Liu, Li Chen, Xingxing Hao, Fei Xie, Haiyang Nan, Jiyao Yang, and Honghao Zhai. A two-stage multi-objective evolutionary algorithm for large-scale multi-objective optimization. In Proceedings of the IEEE world congress on computational intelligence(WCCI2022), Padova, Italy 18-23 July, 2022. https://ieeexplore.ieee.org/document/9870333/figures#figures

WORK EXPERIENCE

May 2021 - Sep 2021	R&D Engineer <i>New Road Network Technology Co., Ltd.</i> <ul style="list-style-type: none">• develop machine learning based framework to design a sliding captcha project.• implement the anti-private access project
Sep 2019 - Mar 2020	Research Intern <i>Advised by Prof. Xingzhong Zhang</i> <i>Shanghai Briup Software Technology Co., Ltd.</i> <ul style="list-style-type: none">• design and realize the intelligent management system of college players (techniques include: SpringBoot, MySQL, Json and Redis). (dissertation)

RESEARCH PROJECT

Sep 2021	Direction-Guided Learning to Accelerate Evolutionary Search for Large-Scale Multiobjective Optimization(Evolutionary Computation) <ul style="list-style-type: none">• Aimed at accelerating the convergence of solutions for large-scale multi-objective problems• I designed a feedforward neural network based direction vector construction method to reproduce new solutions efficiently.
Mar 2021	College Answer Sheet Auto-Grading Items(Computer Vision) <i>Xidian University</i> Supervised by Xingxing Hao <ul style="list-style-type: none">• For our project, the yolov5 model structure has been simplified and optimized, and the image recognition speed has been further improved.• I performed random cropping and splicing before image input to the network, and the generalization performance of student ID recognition was further improved.

Jul 2019

Self-driving car project based on deep learning

National Undergraduate Electronics Design Contest | Supervised by Fuping Lin

- Tools: PiCar-X, OpenVINO, Neural Compute Stick 2(NCS2)
- As the principal for this project, I designed a smart car that can simulate scenarios such as track recognition, voice control, pedestrian recognition, etc.

HONORS

The first class scholarship top 5% Awarded to student with outstanding academic performance

Excellent Student Cadre top 3% Awarded to undergraduate student with leadership

National Second Prize Awarded in National Undergraduate Electronic Design Contest

SKILLS

Programming:

- Python(Pytorch, Sklearn)
- MATLAB: over 10,000 lines experience
- Java: (Spring, SpringMVC, MyBatis, SpringBoot, SpringCloud, etc.)
- C&C++

Document Creation:

- Microsoft Office Suite
- Latex
- Markdown