

Xin Zhang

 Xin Zhang |  xin.zhang@maine.edu |  803.636.3178

SUMMARY

Primary research interests in computer vision, deep learning, and machine learning, published papers in several international conferences. **Extensive teaching experience** for multiple courses, including Algorithm Analysis and Design, Operating Systems, Object-oriented Programming(C++) and Real-Time Systems (C & Matlab). **Active learner** with a strong background in computer science, familiar with various mainstream programming languages and software libraries. **Competent programmer** with experience in several industrial projects, including Web, WinForm, Android APPs and applied DL systems.

EDUCATION

- **University of South Carolina** Columbia, SC, the US
PhD candidate in Electrical Engineering; Jan 2020 - Dec 2023
- **University of South Carolina** Columbia, SC, the US
PhD student in Computer Science; Aug 2019 - Jan 2020
- **Chongqing University** Chongqing, China
Master in Software Engineering; Sep 2016 - Jun 2019
- **Chongqing University** Chongqing, China
Bachelor in Software Engineering; Sep 2012 - Jun 2016

TEACHING EXPERIENCE

- **Instructor** University of Southern Maine
System Programming Spring 2024
- **Instructor** University of Southern Maine
Computer Organizations Spring 2024
- **Instructional Assistant** University of South Carolina
Real Time Systems Fall 2022, Spring 2023
- **Instructional Assistant** University of South Carolina
Autonomous Vehicle Summer Camp July 2022
- **Instructional Assistant** University of South Carolina
Vex Robotics Summer Camp June 2022
- **Teaching Assistant** University of South Carolina
Operating Systems Fall 2019
- **Teaching Assistant** Chongqing University, China
Algorithm Analysis and Design Fall 2018, Spring 2019
- **Teaching Assistant** Chongqing University, China
Object-oriented Programming Spring 2018

PUBLICATIONS

- [1] **Xin Zhang**, Yuqi Song, Xiaofeng Wang, and Fei Zuo. “D-Score: A White-Box Diagnosis Score for CNNs Based on Mutation Operators”. In: *The 19th anniversary of the International Conference on Advanced Data Mining and Applications*, 2023.
- [2] **Xin Zhang**, Yuqi Song, Fei Zuo, Zheqing Zhou, and Xiaofeng Wang. “Towards Imbalanced Large Scale Multi-label Classification with Partially Annotated Labels”. In: *The 21st IEEE/ACIS International Conference on Software Engineering Research, Management and Applications*. 2023.
- [3] **Xin Zhang**, Rabab Abdel, Yuqi Song, and Xiaofeng Wang. “Depth Monocular Estimation with Attention-based Encoder-Decoder Network from Single Image”. In: *The 24th IEEE International Conference on High Performance Computing and Communications*. 2022.
- [4] **Xin Zhang**, Rabab Abdel, Yuqi Song, and Xiaofeng Wang. “An Effective Approach for Multi-label Classification with Missing Labels”. In: *The 24th IEEE International Conference on High Performance Computing and Communications*. 2022.
- [5] Translated by **Xin Zhang**, Hong Xiang, and Li. Fu. “Foundations of Quantum Programming (Chinese)”. In: *Chinese Machine Press*. 2019.
- [6] **Xin Zhang**, Hong Xiang, and Yuqi Song. “Meta-Path and Matrix Factorization Based Shilling Detection for Collaborate Filtering”. In: *International Conference on Collaborative Computing: Networking, Applications and Worksharing*. Springer. 2018, pp. 3–16.

- [7] **Xin Zhang**, Hong Xiang, and Tao Xiang. “An efficient quantum circuits optimizing scheme compared with qiskit”. In: *International Conference on Collaborative Computing: Networking, Applications and Worksharing*. Springer. 2018, pp. 467–476.
- [8] Fei Zuo, **Xin Zhang**, Yuqi Song, Junghwan Rhee, and Jicheng Fu. “Commit Message Can Help: Security Patch Detection in Open Source Software via Transformer”. In: *The 21st IEEE/ACIS International Conference on Software Engineering Research, Management and Applications*. 2023.
- [9] Rabab Abdel, **Xin Zhang**, Zhenyao Wu, and Xiaofeng Wang. “PLMCL: Partial-Label Momentum Curriculum Learning for Multi-Label Image Classification”. In: *The European Conference on Computer Vision (ECCV 22’) L2ID Workshop*. 2022.
- [10] Rabab Abdel, **Xin Zhang**, Mostafa M. Fouda, and Xiaofeng Wang. “G2NetPL: Generic Game-Theoretic Network for Partial-Label Image Classification”. In: *The 33rd British Machine Vision Conference (BMVC 22’)*. 2022.