Yang Zhou

Ph.D. student

Rutgers University-Department of Computer Science

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EDUCATION

September 2023 - Now, Rutgers University
PhD of Computer Science
Major: Computer Science
Specialization: Large Language Model, Computer Vision

September 2020 - June 2023, University of Science and Technology of China (member of Top-Notch Class)
Masters of Engineering
Major: Control Science and Engineering
Specialization: Computer Vision, Object Detection, CNN Architecture

September 2016 - June 2020, Southwest University (Overall GPA: 4.0, Weighted average score: 88.53)
Bachelor of Engineering
Major: Automation
Specialization: Signals & Systems

PUBLICATIONS

https://scholar.google.com/citations?user=BsQ8IUcAAAAJ&hl

MLLM & Object Detection

1. LED: LLM Enhanced Open-Vocabulary Object Detection without Human Curated Data Generation
   Yang Zhou, Shiyu Zhao, Yuxiao Chen, Zhengting Wang, Dimitris N. Metaxas
   arXiv

Computer Vision:

2. **Yang Zhou**, Zhaoyang Xia, Yuxiao Chen, Carol Neidle, Dimitris N. Metaxas
   A Multimodal Spatio-Temporal GCN Model with Enhancements for Isolated Sign Recognition
   LREC-COLING 2024
3. Shuang Cong*, **Yang Zhou**
   A Review of Convolutional Neural Network Architectures and Their Optimizations.
   Artificial Intelligence Review (IF 9.588/Q1)
4. **Yang Zhou**, Shuang Cong*.
   Improved Transformer-Based SSD Detector for Airborne Object Detection
   2022 4th International Conference on Frontiers Technology of Information and Computer.
5. Zhaoyang Xia, **Yang Zhou**, Ligong Han, Carol Neidle, Dimitris N. Metaxas
   Diffusion Models for Sign Language Video Anonymization
   LREC-COLING 2024

Modeling & Data Analysis

6. **Yang Zhou**, and Zichuan Fan*.
   A multistory building evacuation model based on multiple-factor analysis.
   Advances in Civil Engineering (IF 1.924/Q3).

Signals & Systems

7. Zichuan Fan*, **Yang Zhou** and Tanghong Wu.
   The excitation and detection of Lamb waves in a droplet-loaded plate using air-coupled ultrasonic transducers.
   Measurement (IF 5.131/Q1).
8. Zichuan Fan*, **Yang Zhou** and Tianhao Qie.
   Quasi-dispersion of air-coupled ultrasonic signal for angle-dependent reception.
   Measurement (IF 5.131/Q1).
9. **Yang Zhou**, and Zichuan Fan*.
   Multiphysics Model of Lamb Waves Propagation in A Plate Loaded with Droplets.
   2019 5th International Conference on Control, Automation and Robotics (ICCAR). IEEE.
10. Zichuan Fan*, Tianhao Qie and **Yang Zhou**.
    Multiple reflective signal reception in gas flow measurement using air-coupled leaky Lamb waves.
    Measurement (IF 5.131/Q1).

Teaching & Talk

Computer Security New Jersey, American
Teaching Assistants, Rutgers University 2025SP
Systems Programming New Jersey, American
Teaching Assistants, Rutgers University 2023FA, 2024SP
Neural Networks and Deep Learning Hefei, Anhui, China
Teaching Assistants, University of Science and Technology of China August, 2021
Characteristics of Lamb waves and their leakage waves Beijing, China
Presenter, 2019 ICCAR International Academic Conference May, 2019

Skill

Operating System	Window, Linux
Programming	Python(mainly), C++, Java
Tools	Office, MATLAB

HONORS & AWARDS

2019 Invention patents (China)
2019 Utility Model Patent (China)
2019 The Mathematical Contest in Modeling(COMAP) Meritorious Winner