

JIAQI LIU

I am seeking a PhD position about CV/ML in 2024/2025.

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🎓 EDUCATION

Southern University of Science and Technology Computer Science Master 2021.08 – 2024.07

GPA: 3.58/4.0 Major: advanced algorithm, advanced AI, intelligent data analysis, etc.

Dalian University of Technology Software Engineering Bachelor 2015.09 – 2019.06

GPA: 3.34/4.0 Major: data structures, computer networks, database programming, etc.

⚙️ SKILLS

- Proficient in C++, Python, Java;
- Proficient in pytorch framework and deep model writing and debugging;
- Proficient in using basic computer vision models such as ResNet and ViT for downstream task training.

👨‍💻 WORKING/INTERNSHIP EXPERIENCE

Tencent, Youtu Lab 2022.01 – Now

Research on unsupervised industrial image anomaly detection: detect scratches, dents and other defects.

- Summary of algorithm paradigms in anomaly detection field and predicting future trends;
- Developing the open-iaad algorithm library to establish benchmarks and conduct performance analysis for algorithms in scenarios with few samples, noisy learning, etc;
- Research on anomaly detection algorithms in complex scenarios such as multi-modal, few shot, continual learning, etc., leading to the publication of several top-tier journal and conference papers.

Shenzhen Stock Exchange, Shenzhen Securities Communication Co., Ltd. 2019.07 – 2021.06

Analysis and Application of User Access Network Data in the Shenzhen Stock.

- Analyze potential risks based on network security device logs and real-time performance data;
- Research and establish a data platform, analyze the advantages and disadvantages of commercial platform and open source components, and initially build a data middle platform.

♡ PAPER & AWARDS

Accepted Paper (*: first author,: co-first author):**

Unsupervised Continual Anomaly Detection with Contrastively-Learned Prompt *, AAAI 2024

Deep Industrial Image Anomaly Detection: A Survey *,MIR(IF: 6.4) 2024

IM-IAD: Industrial Image Anomaly Detection Benchmark in Manufacturing **, IEEE TCYB(IF: 11.8), 2024

Real3D-AD: A Dataset of Point Cloud Anomaly Detection *, NeurIPS 2023

Pushing the Limits of Fewshot Anomaly Detection in Industry Vision: Graphcore **, ICLR 2023

EasyNet: An Easy Network for 3D Industrial Anomaly Detection **, ACM MM 2023

What Makes a Good Data Augmentation for Few-Shot Unsupervised Image Anomaly Detection CVPRW 2023

Personal homepage for details: <https://jiaqiliu.cn>

Under review:

Industrial Image Domain Adaptation Dataset & Baseline submitted to TAI

Diffusion-based Tuning-Free Style Transfer submitted to SIGGRAPH 2024

Awards:

National Scholarship for Graduate Students (Department of Computer Science and Engineering #1) 2023

Academic Star (College of Engineering), SUSTech 2023

Top 10 Graduate Students(5 masters, 5 PhDs), SUSTech 2024

🛠 SERVICE & OPEN SOURCE

- NeurIPS, ICLR, ICML, ACM-MM, IJCAI, EAAI, EWSA Reviewer
- Create and maintain repository: <https://github.com/M-3LAB/awesome-industrial-anomaly-detection>(1k+star)