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简短介绍

我是谢国洋，英国萨里大学 NICE 组实验室博士生（今年10月底毕业），师从于欧洲科学院院士，IEEE Fellow, IEEE计算智能学位侯任理事长，德国比勒菲尔德大学洪堡人工智能教席教授金耀初。我博士题目Deep Learning-based Image Anomaly Detection in Industrial Manufacturing and Medical Imaging（基于深度学习的工业图像和医疗图像异常检测）。现在我手上总共有14篇顶会及顶刊 （4篇 CCF-A, 2篇 CCF-B，4篇 JCR1区顶刊，其中3篇是中科院1区）。在读博之前，我曾在广汽研究院和百度工作，工作方向是自功驾驶感知相关的技术管理和产品研发的工作。我曾在广汽研究院带领14人团队进行 L3级和L4级自动驾驶技术进行预研和开发工作。 其细节会在工作经历中详细介绍

工作经历

首席感知智能算法工程师, 广汽研究院 – 2017.12-2019.9

1. 建立L3和 L4 级自动驾驶场景测试标准定义, 其中包括：
    - 车道线检测测试标准定义
    - 可行驶区域分割标准定义，包含高速，城区，郊区定义
    - 目标检测标准定义，包含高架桥，高速路定义场景
2. 建立量产级泊车辅助算法，其中包括:
    - Visual SLAM 算法建立
    - 智能泊车场景定义
3. 建立大规模的高速道路视觉算法数据集，可支持多项任务，其中包括
    - 像素级语义检测
    - 实时级目标检测

感知智能算法工程师 – 2015.11-2017.11

基于深度学习的3D障碍物识别及分类, 其中包括

- 基于forest tree 的3D目标分类
- End-to-end 3D点云障碍物检测，分类，跟踪统一框架

学习经历

英国萨里大学 – 博士–机器学习，2019.10-2023.10（预计）

香港科技大学–硕士–机器人感知，2013.9-2015.9

电子科技大学–本科-电子工程， 2009.9-2013.6

学术论文(* 为共同一作)

1. **Guoyang Xie***, Jinbao Wang*, Jiaqi Liu, Yaochu Jin and Feng Zheng, “Pushing the Limits of Few Shot Anomaly Detection in Industry Vision: Graphcore”, (ICLR 2023, ML 三大会之一)

2. Jiaqi Liu*, **Guoyang Xie***, Ruitao Chen*, Xinpeng Li, Jinbao Wang, Yong Liu, and Feng Zheng , “Real3D-AD: A Dataset of Point Cloud Anomaly Detection”, (NeurIPS Dataset and Benchmark Track, CCF-A)

3. Ruitao Chen*, **Guoyang Xie***, Jiaqi Liu*, Jinbao Wang, Ziqi Luo, Jinfan Wang and Feng Zheng, “EasyNet: An Easy Network for 3D Industrial Anomaly Detection”, (ACM MM, CCF-A)

4. **Guoyang Xie***, Jinbao Wang*, Jiaqi Liu*, Jiayi Lyu, Yong Liu, Chengjie Wang, Feng Zheng, and Yaochu Jin, “IM-IAD: Industrial Image Anomaly Detection Benchmark in Manufacturing”, (TCYB, IF: 19.217, JCR1区，中科院1区，Minor Revision)

5. L.Zhang, S.Zhang, **Guoyang Xie**, Jiaqi Liu, Hua Yan, Jinbao Wang, and Feng Zheng, “What makes a good data augmentation for few-shot unsupervised image anomaly detection”, (CVPR Workshop 2023)

6. Jinbao Wang*, **Guoyang Xie***, Yawen Huang*, Yefeng Zheng, Yaochu Jin and Feng Zheng, “FedMed-ATL: Misaligned Unpaired Cross-Modality Neuroimage Synthesis via Transform Loss”, (ACM MM 2023, CCF-A)

7. **Guoyang Xie**, Tao Xu, Carsten Isert, Michael Aeberhard, Shaohua Li and M.Liu, “Online Active Calibration for a Multi-LRF System”, (ITSC 2015, CCF-B)

8. **Guoyang Xie*,** Yawen Huang*, Jinbao Wang, Jiayi Lyu, Feng Zheng, Yefeng Zheng, and Yaochu Jin, “Cross-Modality Neuroimage Synthesis: A Survey”, (ACM Computing Surveys 2023, IF: 14.324, JCR-1区，中科院1区)

9. **Guoyang Xie***, Jinbao Wang, Guo Yu, Feng Zheng and Yaochu Jin, “Tiny Adversarial Multi-Objective One-Shot Neural Architecture Search”, (CAIS, IF: 6.72, JCR1区)

10. Jinbao Wang*, **Guoyang Xie***, Yawen Huang*, Jiayi Lyu, Feng Zheng, Yefeng Zheng and Yaochu Jin, “FedMed-GAN: Federated Domain Translation on Unsupervised Cross-Modality Brain Image Synthesis”, (NeuroComputing, IF: 5.719, JCR1区)

11. Jiaqi Liu*, **Guoyang Xie***, Jinbao Wang*, Shangnian Li, Chengjie Wang, Feng Zheng, and Yaochu Jin, “Deep Industrial Image Anomaly Detection: A Survey”, (Machine Learning Research, 2023)

12. Jinbao Wang*, **Guoyang Xie***, Yawen Huang*, Jiayi Lyu, Feng Zheng, Yefeng Zheng, and Yaochu Jin, “K-CROSS: K-Space Aware Cross-Modality Score for Synthesized Neuroimage Quality Assessment, (Submitted to JBHI, CCF-B, 中科院1区)

13. **Guoyang Xie***, Jiaqi Liu*, Jinbao Wang, Yaochu Jin, and Feng Zheng, “Transfer-AD: Transferable Image Anomaly Detection in Changeover Procedure”, (Submitted to AAAI 2023, CCF-A)

14. Jiang Xi*, **Guoyang Xie***, Jinbao Wang*, Yong Liu, Chengjie Wang, Feng Zheng, Yaochu Jin, “A Survey of Visual Sensory Anomaly”, arXiv preprint arXiv:2202.07006

基本技能

- 英文写作和口语流利，托福:99分，GRE:325分
- 编码语言：Python, Latex, C++

著名学术期刊审稿人

- 2020-2023， CAIS 审稿人
- 2022， AAAI审稿人
- 2023， NeurIPS审稿人
- 2023， TEVC审稿人
- 2023， ACM MM 审稿人
- 2023， ICLR 审稿人
- 2023, TETCI 审稿人
- 2023, TNNLS 审稿人

GITHUB REPOS(代码库)

- Open-IAD: https://github.com/M-3LAB/open-iad
- FedMed-GAN: https://github.com/M-3LAB/FedMed-GAN
- Awesome Industrial Image Anomaly Detection: https://github.com/M-3LAB/awesome-industrial-anomaly-detection
- Brain-GAN Survey: https://github.com/M-3LAB/awesome-multimodal-brain-image-systhesis