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机器学习博士 . 英国萨里大学

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"有志者,事竟成"

个人简介___

我是谢国洋,英国萨里大学 NICE 组实验室博士生(今年9月底毕业),师从于欧洲科学院院士,IEEE Fellow, IEEE 计算智能学会侯任主席,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 Automactic Industrial Image Anomaly Detection(自动化工业图像异常检测),我的研究方向是主要人工智能在工业生产或制造中的应用,包括能源,通讯,制造业,金融业等领域。现在我手上总共有12篇顶会及顶刊(4篇 CCF-A, 1篇 CCF-B,4篇 JCR1 区顶刊,其中2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开发。

工作经历_____

广汽研究院

· L3 和 L4 感知团队技术路线的发展以及和供应商联合开发感知算法.

算法工程师 2015.11 - 2017.11

· 3D 障碍物检测和分类.

教育经历_____

萨里大学 吉尔福德 英国

机器学习博士 2019.10 - 2023.9

- 论文题目: 在转产过程当中小样本工业图像异常检测
- 导师: 金耀初教授

香港科技大学 香港特別行政区,中国

机器人硕士 (学术型硕士) 2013.9 - 2015.7

- 论文题目: 自动化标定自动驾驶感知系统
- 导师: 刘明教授

电子科技大学 成都,中国

物理电子本科 2009.9 - 2013.7

论文发表_____

*表示共同一作.

会议论文

- 1. **Guoyang, Xie***, Jingbao Wang*, Jiaqi Liu*, Feng Zheng, and Yaochu Jin. "Pushing the limits of fewshot anomaly detection in industry vision: Graphcore." The Eleventh International Conference on Learning Representations (ICLR). 2023.
- Jinbao Wang*, Guoyang Xie*, Yawen Huang*, Yefeng Zheng, Yaochu Jin, and Feng Zheng. "FedMed-ATL: Misaligned Unpaired Cross-Modality Neuroimage Synthesis via Affine Transform Loss." In Proceedings of the 30th ACM International Conference on Multimedia (ACM MM), pp. 1522-1531. 2022.
- 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, 2023.
- 4. Zhang, Lingrui*, Shuheng Zhang*, **Guoyang Xie**, Jiaqi Liu, Hua Yan, Jinbao Wang, Feng Zheng, and Yaochu Jin. "What makes a good data augmentation for few-shot unsupervised image anomaly detection?" In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR Vision Workshop), pp. 4344-4353. 2023.
- 5. **Guoyang Xie**, Tao Xu, Carsten Isert, Michael Aeberhard, Shaohua Li, and Ming Liu. "Online active calibration for a multi-lrf system." In 2015 IEEE 18th International Conference on Intelligent Transportation Systems(ITSC), pp. 806-811. IEEE, 2015.
- 6. **Guoyang Xie***, Jiaqi Liu*, Jinbao Wang, Yaochu Jin, and Feng Zheng. "Transfer-AD: Transferable Image Anomaly Detection in Changeover Procedure." Submitted to NeurIPS, 2023.
- 7. Jiaqi Liu*, **Guoyang Xie***, Ruitao Chen*, Xinpeng Li, Jinbao Wang, Yong Liu, Chengjie Wang and Feng Zheng. "Real3D-AD: A Dataset of Point Cloud Anomaly Detection." Submitted to NeurIPS Dataset and Benchmark Track, 2023.

期刊论文

- 1. **Guoyang Xie***, Jinbao Wang*, Yawen Huang*, Jiayi Lyu, Feng Zheng, Yefeng Zheng, and Yaochu Jin. "Cross-Modality Neuroimage Synthesis: A Survey." ACM Computing Surveys (Minor Revision). 2023.
- 2. **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." IEEE Transactions on Cybernetics (IEEE TCYB) (Major Revision). 2023.
- 3. Liu, Jiaqi*, **Guoyang Xie***, Jinbao Wang*, Shangnian Li, Chengjie Wang, Feng Zheng, and Yaochu Jin. "Deep Industrial Image Anomaly Detection: A Survey." Machine Intelligence Research (MIR). 2023.
- 4. **Guoyang Xie***, Jinbao Wang*, Guo Yu, Feng Zheng, and Yaochu Jin. "Tiny adversarial mulit-objective oneshot neural architecture search." Complex & Intelligent Systems (CAIS) 6 (2023): 107-109.
- 5. 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 546 (2023): 126282.
- Guoyang Xie*, Jinbao Wang*, Yawen Huang*, Jiayi Lyu, Feng Zheng, Yefeng Zheng, and Yaochu Jin. "K-CROSS: K-Space-Aware Cross-Modality Score for Synthesized Neuroimage Quality Assessment." IEEE Journal of Biomedical and Health Informatics (IEEE JBHI) (Under Review). 2023.
- 7. Jiang, Xi*, **Guoyang Xie***, Jinbao Wang*, Yong Liu, Chengjie Wang, Feng Zheng, and Yaochu Jin. "A survey of visual sensory anomaly detection." arXiv preprint arXiv:2202.07006 (2022).

编程技能_____

Programming Python, Matlab, C++, HTML5, LaTeX

学术评审.

2020-2023, Complex & Intelligent Systems, 审稿人

2022 **AAAI**, 审稿人

2023 NeurIPS, 审稿人

2023 ACM MM, 审稿人

2023 **TEVC**, 审稿人

2023 **TETCI**, 审稿人



Open-IAD

发起者&贡献者

• https://github.com/M-3LAB/open-iad

Fedmed-GAN

发起者&贡献者

• https://github.com/M-3LAB/FedMed-GAN

Awesome Industrial Anomaly Detection

发起者&贡献者

 $\bullet \ \mathtt{https://github.com/M-3LAB/awe some-industrial-anomaly-detection}$

Awesome Multi-Modal Brain Image Synthesis

发起者&贡献者

 $\bullet \ \mathtt{https://github.com/M-3LAB/awe some-multimodal-brain-image-systhesis}$