



# 王金宝

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## 个人简介

王金宝, 1989 年 11 月 12 日出生, 河北石家庄人, 2019 年获得中国科学院大学工学博士学位。目前是中国深圳南方科技大学的研究助理教授, 主要领域涉及计算机视觉和机器学习, 长期专注于图像异常检测、图表征学习、图像多样化生成和快速检索。我们致力于将视觉技术应用于真实工业场景和虚拟现实的人机交互环境。

目前主持国家自然科学基金青年基金和参与国自然国际合作重点项目, 参与了基于深度学习技术的多模态物体三维检测与识别理论与方法等面上项目; 在 IEEE TIP、IEEE TCSVT、Neurocomputing、ICCV、ACM MM、NeurIPS 和 ICLR 等重要国际期刊和会议上发表了 **26** 篇论文, 谷歌引用次数超过 **700** 次, 高引用论文 **1** 篇; 担任国际期刊和会议的审稿人, 如 IEEE TIP、IEEE TCSVT、ACM MM、NeurIPS、AAAI、IJCAI、ICML; 目前作为 IEEE、ACM 等顶级人工智能会议程序委员会的成员。

## 项目情况

- 2024.1-2028.12, 国家自然科学基金 (NSFC)-国际 (地区) 合作与交流项目, “高保真数字人建模与驱动关键技术研究”, 项目号 62320106007, **216 万**, 中方项目合作方负责人
- 2023.1-2025.12, 国家自然科学基金 (NSFC)-青年科学基金项目, “面向工业视觉的高效能三维异常检测算法研究”, 项目号 62206122, **30 万**, 项目负责人
- 2023.4-2023.8, 柔性静电吸附辅助的无人机视觉定位与物体抓取平台开发, 哈工深 (深圳) 横向, **3.5 万**, 项目负责人
- 2023.1-2025.12, 博士后留深科研资助, 深圳市, **30 万**, 项目负责人

## 工作经历

### 南方科技大学

研究助理教授

深圳, 中国

2021.11 - 现在

- 主要研究方向为图像异常检测、计算机视觉、机器学习

### 南方科技大学

博士后研究员

深圳, 中国

2019.10 - 2021.10

- 主要研究方向图表征学习、快速检索、计算机视觉

## 教育经历

### 中国科学院大学 (UCAS)

工学博士学位, 计算机应用技术专业

北京, 中国

2016.9 - 2019.7

- 毕业论文: 多视点视频序列目标三维重建算法研究
- 导师: 吕科教授、薛健教授

## 北京联合大学 (BUU)

工学硕士学位, 软件工程专业

北京, 中国

2013.9 - 2016.7

- 毕业论文: 数字图像去雾方法研究
- 导师: 何宁教授

## 河北大学 (HBU)

理学学士学位, 电子信息科学与技术专业

河北, 中国

2009.9 - 2013.7

## 荣誉 & 奖项

- |      |                       |        |
|------|-----------------------|--------|
| 2019 | 北京市优秀毕业生, 中国科学院大学     | 北京, 中国 |
| 2019 | 中国科学院大学院长奖学金, 中国科学院大学 | 北京, 中国 |
| 2016 | 北京市优秀毕业生, 北京联合大学      | 北京, 中国 |
| 2015 | 国奖奖学金, 北京联合大学         | 北京, 中国 |

## 程序委员会

- |      |   |
|------|---|
| 2024 | 审稿人, AAAI   |
| 2023 | 审稿人, IEEE TIP, IEEE TCSVT, NeurIPS, Patterns, IJCAI, ACM MM, ICLR, PR |

## 论文列表

一作: 12; 通讯: 7; 文章总数: 26

标记: \* 共同一作, † 共同通讯

### CCF-A 类 (一作: 2; 通讯: 4)

1. Jiaqi Liu, Guoyang Xie, Ruitao Chen, Xinpeng Li, **Jinbao Wang**†, Yong Liu, Chengjie Wang, Feng Zheng†. "Real3D-AD: A Dataset of Point Cloud Anomaly Detection." NeurIPS Datasets & Benchmarks Track. 2023.
2. Ruitao Chen, Guoyang Xie, Jiaqi Liu, **Jinbao Wang**†, Ziqi Luo, Jinfan Wang, and Feng Zheng†. "EasyNet: An Easy Network for 3D Industrial Anomaly Detection." In Proceedings of the 31st ACM International Conference on Multimedia (ACM MM). 2023.
3. Wujin Li, Jiawei Zhan, **Jinbao Wang**†, Bizhong Xia, Bin-Bin Gao, Jun Liu, Chengjie Wang, and Feng Zheng†. "Towards Continual Adaptation in Industrial Anomaly Detection." In Proceedings of the 30th ACM International Conference on Multimedia (ACM MM), pp. 2871-2880. 2022.
4. Xi Jiang, Jianlin Liu, **Jinbao Wang**†, Qiang Nie, W. U. Kai, Yong Liu, Chengjie Wang, and Feng Zheng†. "SoftPatch: Unsupervised Anomaly Detection with Noisy Data." In Advances in Neural Information Processing Systems (NeurIPS). 2022.
5. **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.
6. **Jinbao Wang**, Shuo Xu, Feng Zheng, Ke Lu, Jingkuan Song, and Ling Shao. "Learning efficient hash codes for fast graph-based data similarity retrieval." IEEE Transactions on Image Processing (**IEEE TIP**) 30 (2021): 6321-6334.
7. Hongjun Chen, **Jinbao Wang**, Hong Cai Chen, Xiantong Zhen, Feng Zheng, Rongrong Ji, and Ling Shao. "Seminar learning for click-level weakly supervised semantic segmentation." In Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV), pp. 6920-6929. 2021.

### 高被引文章 (一作: 1)

1. **Jinbao Wang**, Ning He, Lu-Lu Zhang, and Ke Lu. "Single image dehazing with a physical model and dark channel prior." Neurocomputing 149 (2015): 718-728.

### 其他文章 (一作: 9; 通讯: 3)

1. 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.
2. Lingrui Zhang, 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.
3. Guoyang Xie\*, **Jinbao 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.
4. Jiaqi Liu\*, 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.
5. Guoyang Xie\*, **Jinbao Wang**\*, Guo Yu, Feng Zheng, and Yaochu Jin. “Tiny adversarial multi-objective oneshot neural architecture search.” Complex & Intelligent Systems (CIS) 6 (2023): 107-109.
6. **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.
7. Hao Zheng\*, **Jinbao Wang**\*, Xiantong Zhen, Jingkuan Song, Feng Zheng, Ke Lu, and Guo-Jun Qi. “Continuous cross-modal hashing.” Pattern Recognition (PR) 142 (2023): 109662.
8. **Jinbao Wang**\*, Shujie Tan\*, Xiantong Zhen, Shuo Xu, Feng Zheng, Zhenyu He, and Ling Shao. “Deep 3D human pose estimation: A review.” Computer Vision and Image Understanding (CVIU) 210 (2021): 103225.
9. Lian Chen, Ke Lu, Pengcheng Gao, Jian Xue, and **Jinbao Wang**. “A Novel Multi-feature Skeleton Representation for 3D Action Recognition.” In International Conference on Pattern Recognition (ICPR), pp. 365-379. Springer, Cham, 2021.
10. **Jinbao Wang**, Ke Lu, Jian Xue, and Yutong Kou. “Relative Depth Estimation Prior for Single Image Dehazing.” In 2019 IEEE International Conference on Multimedia & Expo Workshops (ICMEW), pp. 270-275. IEEE, 2019.
11. **Jinbao Wang**, Ke Lu, Jian Xue, Pengcheng Gao, and Yanfu Yan. “A markerless body motion capture system for character animation based on multi-view cameras.” In ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), pp. 8558-8562. IEEE, 2019.
12. **Jinbao Wang**, Ke Lu, Jian Xue, Ning He, and Ling Shao. “Single image dehazing based on the physical model and MSRCR algorithm.” IEEE Transactions on Circuits and Systems for Video Technology (**IEEE TCSVT**) 28, no. 9 (2017): 2190-2199.
13. Ning He, **Jinbao Wang**, Lu-Lu Zhang, Guang-Mei Xu, and Ke Lu. “Non-local sparse regularization model with application to image denoising.” Multimedia Tools and Applications 75, no. 5 (2016): 2579-2594.
14. Ning He, **Jinbao Wang**, Lu-Lu Zhang, and Ke Lu. “Convex optimization based low-rank matrix decomposition for image restoration.” Neurocomputing 172 (2016): 253-261.
15. **Jinbao Wang**, Ning He, and Ke Lu. “A new single image dehazing method with MSRCR algorithm.” In Proceedings of the 7th International Conference on Internet Multimedia Computing and Service, pp. 1-4. 2015.
16. Ning He, **Jinbao Wang**, Lu-Lu Zhang, and Ke Lu. “An improved fractional-order differentiation model for image denoising.” Signal Processing 112 (2015): 180-188.
17. Ning He, Ke Lu, and **Jinbao Wang**. “Image denoising using fractional-order non-local TV model.” In Proceedings of International Conference on Internet Multimedia Computing and Service, pp. 279-282. 2014.
18. Ning He, Ke Lu, Bing-Kun Bao, Lu-Lu Zhang, and **Jinbao Wang**. “Single-image motion deblurring using an adaptive image prior.” Information Sciences 281 (2014): 736-749.

## 审稿中

1. 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.
2. **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.” IEEE Journal of Biomedical and Health Informatics (**IEEE JBHI**) (Under Review). 2023.