

Jun CEN
Robotics and Autonomous Systems
The Hong Kong University of Science and Technology
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Degree	University	Major	Year	Supervisor	GPA
PhD	HKUST	Robotics	2020-now	Qifeng Chen, Michael Wang	3.98/4.3
MSc	HKUST	Mechanical	2019-20	Lilong Cai	3.99/4.3
Bachelor	Zhejiang University	Mechatronics	2015-19	Jinghua Xu	3.82/4.0

Research Interests

- **Life-long Learning:** *open-set recognition* and *incremental learning* in 2D/3D semantic segmentation, 3D object detection, image/video recognition, etc.

Publication

- [1]. **Keep Me Away! Keep Intra-class Variance for Open-set Action Recognition**
Jun CEN, Xiang Wang, Yixuan Pei, Zhiwu Qing, Shiwei Zhang, Mingqian Tang, Qifeng Chen
[[Under Review](#)]
- [2]. **The Devil is in the Wrongly-classified Samples: Towards Unified Open-set Recognition**
Jun CEN*, Di Luan*, Shiwei Zhang, Yixuan Pei, Yingya Zhang, Deli Zhao, Shaojie Shen, Qifeng Chen
International Conference on Learning Representations 2023 [[ICLR 2023](#)]
- [3]. **Learning a Condensed Frame for Memory-Efficient Video Class-Incremental Learning**
Yixuan Pei, Zhiwu Qing, Jun CEN, Xiang Wang, Shiwei Zhang, Yaxiong Wang, Mingqian Tang, Nong Sang, Xueming Qian
Conference on Neural Information Processing Systems 2022 [[NeurIPS 2022](#)]
- [4]. **Open-world Semantic Segmentation for LIDAR Point Clouds**
Jun Cen, Peng Yun, Shiwei Zhang, Junhao Cai, Di Luan, Mingqian Tang, Michael Yu Wang, Ming Liu
European Conference on Computer Vision 2022 [[ECCV 2022](#)]
- [5]. **Real-Time Collision-Free Grasp Pose Detection With Geometry-Aware Refinement Using High-Resolution Volume**
Junhao Cai, Jun Cen, Haokun Wang, Michael Yu Wang
Robotics and Automation Letters 2022 [[ICRA with R-AL 2022](#)]
- [6]. **Open-set 3D Object Detection**
Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu
International Conference on 3D Vision 2021 [[3DV 2021](#)]
- [7]. **Conflicts between Likelihood and Knowledge Distillation in Task Incremental Learning for 3D Object Detection**
Peng Yun, Jun Cen, Ming Liu
International Conference on 3D Vision 2021 [[3DV 2021](#)]
- [8]. **Deep Metric Learning for Open World Semantic Segmentation**
Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu
International Conference on Computer Vision 2021 [[ICCV 2021](#)]
- [9]. **BORM: Bayesian Object Relation Model for Indoor Scene Recognition**
Liguang Zhou, Jun Cen, Xingchao Wang, Zhenglong Sun, Tin Lun Lam, Yangsheng Xu
International Conference on Robotics and Systems 2021 [[IROS 2021](#)]
- [10]. **Precision forward design for 3D printing using kinematic sensitivity via Jacobian matrix considering uncertainty**
Jinghua Xu, Xueqing Feng, Jun Cen, Shuyou Zhang
The International Journal of Advanced Manufacturing Technology 2020

Professional Service

- **Reviewer** for T-PAMI, CVPR, ICRA, IROS, JAS (中国自动化学报)

Experience

- **MMLab, Nanyang Technological University** (Mar'23-Now)
 - Visiting Student, supervised by Prof. Ziwei Liu
- **DAMO Academy, Alibaba Group** (Mar'22-Mar'23)
 - Research Intern, supervised by Dr. Shiwei Zhang
- **Robotics and Artificial Intelligence Laboratory, The Chinese University of Hong Kong (SZ)** (Oct'19-Jan'20)
 - Research Assistant, supervised by Prof. Tin Lun Lam
- **Autonomous Driving Group, HIKVISION** (Mar'20-Jul'20)
 - Algorithm Engineer, supervised by Dr. Yushi Zhu

Patents

- 行为识别方法、装置、设备和存储介质, 岑俊、张士伟、吕逸良、赵德丽, 中国发明专利 (已授权), 202210952356X
- 视频处理方法及设备, 岑俊、裴逸璇、张士伟、吕逸良、赵德丽, 中国发明专利 (已授权), 202211099158X