Jun CEN

Robotics and Autonomous Systems

The Hong Kong University of Science and Technology

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Degree	University	Major	Year	GPA
PhD	HKUST	Robotics	2020-now	3.98/4.3
MSc	HKUST	Mechanical	2019-20	3.99/4.3
Bachelor	Zhejiang University	Mechatronics	2015-19	3.82/4.0

Research Interests

- Life-long Learning: open-set recognition, incremental learning
- Distributed Learning: federated learning, blockchain

Publication

[1]. Open-world Semantic Segmentation for LIDAR Point Clouds

Jun Cen, Peng Yun, Shiwei Zhang, Junhao Cai, Di Luan, Michael Yu Wang, Ming Liu, Mingqian Tang, European Conference on Computer Vision (ECCV), 2022

[2]. Open-set 3D Object Detection

Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu, International Conference on 3D Vision (3DV), 2021

[3]. Deep Metric Learning for Open World Semantic Segmentation

Algorithm Engineer, supervised by Dr. Yushi Zhu

Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu, International Conference on Computer Vision (ICCV), 2021

- [4]. 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 (3DV), 2021
- [5]. 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 Intelligent Robots and Systems (IROS), 2021

[6]. 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

Projects	
 Life-long Learning System for 3D Object Detection in Autonomous Driving HKJRI-52, Kaisa Seed Project, supervised by Prof. Michael Yu Wang 	(Jan'21-Jan'22)
 Aggressive Quadrotor Flight through Narrow Gaps MSc independent project, supervised by Prof. Lilong Cai 	(Sep'19-Jun'20)
 Kinematic Sensitivity Analysis for 3D printer Bachelor graduation project, supervised by Prof. Jinghua Xu 	(Sep'18-Jun'19)
Experience	
• DAMO Academy, Alibaba Group	(Mar'22-Now)
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)