

Jun CEN
Robotics and Autonomous Systems
The Hong Kong University of Science and Technology

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

- **Open-set 3D Object Detection**
Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu, *International Conference on 3D Vision (3DV)*, 2021
- **Deep Metric Learning for Open World Semantic Segmentation**
Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu, *International Conference on Computer Vision (ICCV)*, 2021
- **Active Stream Learning in 3D Object Detection for Autonomous Driving**
Peng Yun*, Jun Cen*, Bowen Yang, Di Luan, Michael Yu Wang, Ming Liu, *Transactions on Neural Networks and Learning Systems (TNNLS)*, Under review
- **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
- **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
- **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** (Jan'21-Jan'22)
 - HKJRI-52, Kaisa Seed Project, supervised by Prof. Michael Yu Wang
- **Aggressive Quadrotor Flight through Narrow Gaps** (Sep'19-Jun'20)
 - MSc independent project, supervised by Prof. Lilong Cai
- **Kinematic sensitivity analysis for 3D printer** (Sep'18-Jun'19)
 - Bachelor graduation project, supervised by Prof. Jinghua Xu

Experience

- **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