

**Jun CEN**  
**Robotics and Autonomous Systems**  
The Hong Kong University of Science and Technology  
cen-jun.com

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-set 3D Object Detection**  
Jun Cen, Peng Yun, Junhao Cai, Michael Yu Wang, Ming Liu, *International Conference on 3D Vision (3DV)*, 2021
- [2]. **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
- [3]. **Open-world Semantic Segmentation for LIDAR Point Clouds**  
Jun Cen, Peng Yun, Junhao Cai, Di Luan, Michael Yu Wang, Ming Liu, *Under Review*
- [4]. **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*
- [5]. **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
- [6]. **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
- [7]. **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