Lin Xuanxiang

Contact me at
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Curriculum Vitae

Find me at GitHub

- Computer Vision
- Neural Architecture Search
- AutoML

EDUCATION

Ph.D candidate, Information and Communication Engineering, South China University of Technology **2018.09–present**
Bachelor of Engineering, Information Engineering, South China University of Technology **2014.09–2018.06**

RESEARCH EXPERIENCE

Neural Architecture Search **April 2018-present**
- Currently focusing on automated design of rotation-equivariant point cloud networks, including network construction and search strategy.
- Researched in designing search space for 3D point cloud architecture search.
- Researched in NAS for image classification based on MCTS.
- Reproduced and investigated in ENAS and DARTS, including in-depth analysis of dynamics during the search.

Adversarial Attack and Defense **June 2017–March 2018**
- Designed and implemented methods on the generation and defense of adversarial examples based on denoiser.
- Bronze medal on Kaggle of NIPS 2017: Non-targeted Adversarial Attack competition.

ENGINEERING EXPERIENCE

Infrastructure Administrator (Voluntary) **Jun 2021–Now**
Gorilla Lab @ SCUT Guangzhou

- Developed plugins for OpenPAI to achieve fine-grained management and efficient, interactive training for large-scale AI training on cloud.
- Designed, deployed and maintaining a solution for AI experiments, which includes a k8s cluster, an OpenPAI cluster service and NFS+Ceph storage backend.

Research Intern **May 2020–Aug 2020**
DexForce Technology Co., Ltd Guangzhou

- Researched in edge detection and part segmentation methods for images to support downstream tasks.
- Developed a containerized partial point cloud generation service.

PUBLICATIONS

1. **Xuanxiang**, L., Ke, C. & Kui, J. *Object Point Cloud Classification via Poly-Convolutional Architecture Search* in *Proceedings of the 29th ACM International Conference on Multimedia* (2021).

SKILLS

Languages	Native in Mandarin, Cantonese
	Proficient in English academic writing
	Fluent in English Speaking
	Some French and Latin
Programming	Python (PyTorch)
& Other	Shell Scripting
Computer Skills	C/C++ Development
	Container and cloud-native techniques
	Linux system management

AWARDS & HONORS

2018-2021	Academic Scholarship
2015	National Scholarship