Hao FANG

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30/01/1992

Education

2016–2019 **PhD**, *Computer Science*, TITANE, Inria Sophia-Antipolis, advised by Florent LAFARGE.
Research interests: 3D Computer Vision, Geometric Processing, Machine Learning
e.g. shape detection, 3D surface reconstruction, 3D scene understanding by deep leaning

2014–2015 **Engineer student exchange program**, *Ecole Centrale Paris*.
Specialized in Mathematics applied in Computer Vision and Machine Learning

2013–2016 **M.S. and Engineer degree**, *Beihang University*, Ecole Centrale Pékin.
1^{st} ranking out of 50 students

2009–2013 **B.S.**, *Applied Mathematics*, Beihang University.
Excellent Academic Performance Scholarship of Beihang University

Academic experiences

2018.06 Fang H., Lafarge F., Desbrun M. **"Planar Shape Detection at Structural Scales"**, *IEEE conference on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, US, 2018*

2018.09 Fang H., Lafarge F. **"Pyramid Scene Parsing Network in 3D: improving semantic segmentation of point clouds with multi-scale contextual information"**, *ISPRS Journal of Photogrammetry and Remote Sensing*, to appear, 2019

2020.06 Fang H., Lafarge F. **"Connect-and-Slice: an hybrid approach for reconstructing 3D objects"**, *IEEE conference on Computer Vision and Pattern Recognition (CVPR), Seattle, US, 2020*

Reviewer ISPRS Journal of Photogrammetry and Remote Sensing, The Visual Computer

Working experiences

2019.3–present **Perception and Prediction Engineer in autonomous driving**, *Moonx.ai*, Shen Zhen.

- 3D obstacle detection and tracking from Point Cloud: Caffe, PyTorch, CUDA, Voxelnet, Pixor
- 3D obstacle detection from a sequence of frames
- Early, Middle and Late fusion of point cloud and RGB image for 3D object detection: Caffe
- Sequential vehicle prediction model: LSTM, PyTorch
- Calibration of Lidar and Camera
- Proficient in the details of prediction and perception module of *Baidu Apollo*.

Technical skills

Programming Languages: Proficient in C++, Python, Matlab, LaTeX
Also abitility with JAVA, R

Deep Learning: Tensorflow, PyTorch, Caffe, Keras

Vision/Graphics: OpenCV, OpenGL, CGAL, Qt, PCL

Languages

English: Proficient in reading, writing and speaking

French: Fluent in speaking