

FAN LU

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EDUCATION

Tongji University, Shanghai, China

September 2020 – Present

Ph.D. student of Automotive Engineering

Supervisor: Prof. Guang Chen

Research Interests: 3D computer vision, including point cloud registration and neural rendering.

Tongji University, Shanghai, China

September 2015 – July 2020

Bachelor of Automotive Engineering

GPA: 4.60/5.0 (Top 15%)

PUBLICATIONS

Urban Radiance Field Representation with Deformable Neural Mesh Primitives

Fan Lu*, Yan Xu*, Guang Chen, Hongsheng Li, Kwan-Yee Lin, Changjun Jiang

IEEE/CVF International Conference on Computer Vision (ICCV), 2023

Sparse-to-Dense Matching Network for Large-scale LiDAR Point Cloud Registration

Fan Lu, Guang Chen, Yinlong Liu, Yibing Zhan, Zhijun Li, Dacheng Tao, Changjun Jiang

IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2023

HRegNet: A Hierarchical Network for Efficient and Accurate Outdoor LiDAR Point Cloud Registration

Fan Lu, Guang Chen, Yinlong Liu, Lijun Zhang, Sanqing Qu, Shu Liu, Rongqi Gu, Changjun Jiang

IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2023

HRegNet: A Hierarchical Network for Large-scale Outdoor LiDAR Point Cloud Registration

Fan Lu, Guang Chen, Yinlong Liu, Lijun Zhang, Sanqing Qu, Shu Liu, Rongqi Gu

IEEE/CVF International Conference on Computer Vision (ICCV), 2021

RSKDD-Net: Random Sample-based Keypoint Detector and Descriptor

Fan Lu, Guang Chen, Yinlong Liu, Zhongnan Qu, Alois Knoll

Advances in Neural Information Processing Systems (NeurIPS), 2020

PointINet: Point Cloud Frame Interpolation Network

Fan Lu, Guang Chen, Sanqing Qu, Zhijun Li, Yinlong Liu, Alois Knoll

AAAI Conference on Artificial Intelligence (AAAI), 2021

MoNet: Motion-based Point Cloud Prediction Network

Fan Lu, Guang Chen, Yinlong Liu, Zhijun Li, Sanqing Qu, Tianpei Zou

IEEE Transactions on Intelligent Transportation Systems (T-ITS), 2022

HONORS AND AWARDS

- Shanghai Outstanding Graduate, 2020
- Second Prize of National Post-Graduate Mathematical Contest in Modeling, 2020
- First Class Scholarship of Tongji University, 2018-2019
- First Prize of “Challenge Cup” in Shanghai, 2019