Zike Yan

Contact Information

E-mail: zike.yan@pku.edu.cn *Tel:* (86) 18813197296 *Web:* https://zikeyan.github.io

Research Interests

Implicit Scene Representation, Dense SLAM, Scene Flow Estimation

Education

Peking University, Beijing, China **Sep. 2019 - present**
Ph.D., Electronics Engineering and Computer Science

Harbin Engineering University, Harbin, China **Sep. 2015 - Mar. 2018**
M. Phil., Information and Communication Engineering

Harbin Institute of Technology, Harbin, China **Sep. 2010 - June 2014**
B. Eng., Electrical Engineering and Automation

Publications

Confenrence Papers

Yan Z, Tian Y, Shi X, et al. Continual Neural Mapping: Learning An Implicit Scene Representation from Sequential Observations. ICCV 2021.

Yan Z, Wang X, Zha H. Online Learning of A Probabilistic and Adaptive Scene Representation. CVPR 2021.

Xue F, Wang X, Yan Z, et al. Local Supports Global: Deep Camera Relocalization with Sequence Enhancement, CVPR 2019.

Wang X, Xue F, Yan Z, et al. Continuous-time Stereo Visual Odometry Based on Dynamics Model, ACCV 2018.

Jounal Papers

Wang Q, Yan Z, Wang J, et al. Line Flow based SLAM. IEEE-TRO, 2021.

Yan Z, Zha H. Flow-based SLAM: From Geometry Computation to Learning. Virtual Reality & Intelligent Hardware, 2019.

Yan Z, Xiang X. Scene Flow Estimation: A Survey, *arXiv preprint arXiv:1612.02590*, 2016.

Research Projects

Studies on Neural Scene Representation, Intel Labs China. 2020 - present

Incremental Map Construction, SenseTime. 2019 - present

Real-time Localization, Fast 3D Scene Reconstruction, and Human-robot Interactive Control based on a Biomimetic Vision System, BIT. 2018 - 2020

Indoor Scene Reconstruction in Real-time, BOE. 2018 - 2019

Multi-modal Sensor Data Fusion, ZJU. 2018 - 2019

Patent

Zha H, Yan Z, Fang Y, Jiang L. An Approach and Device for Localization and Reconstruction. 2020 National Invention Patent, CN111598927A

Services

[Reviewer] CVPR 2020, ECCV 2020, ACCV 2020, WACV 2021, CVPR 2021, ICCV 2021