## Zike Yan

Contact Information	<i>E-mail:</i> zike.yan@pku.edu.cn	Tel: (86) 18813197296	Web: https://zikeyan.github.io	
Research Interests	Online Reconstruction, Implicit Scene Representation, Dense SLAM, Lifelong Learning			
Education	<b>Peking University</b> , Beijing, China Ph.D., Electronics Engineering and Computer Science		Sep. 2019 - present	
	Harbin Engineering Universe M. Phil., Information and Comm	Sep. 2015 - Mar. 2018		
	Harbin Institute of Technology, Harbin, ChinaSep. 2010 - JuneB. Eng., Electrical Engineering and Automation			
PUBLICATIONS	Conference Papers			
	<ul> <li>Yan Z, Yang H, Zha H. Active Neural Mapping. ICCV 2023.</li> <li>Yan Z, Tian Y, Shi X, et al. Continual Neural Mapping: Learning an Implicit Scen from Sequential Observations. ICCV 2021.</li> <li>Yan Z, Wang X, Zha H. Online Learning of a Probabilistic and Adaptive Scene CVPR 2021.</li> <li>Xue F, Wang X, Yan Z, et al. Local Supports Global: Deep Camera Relocalizatic Enhancement, CVPR 2019.</li> <li>Wang X, Xue F, Yan Z, et al. Continuous-time Stereo Visual Odometry Based on I ACCV 2018.</li> </ul>			
	Journal Papers			
	<ul> <li>Yan Z, Zha H. Flow-based SLAM: From Geometry Computation to Learning. Virtual Reality &amp; Intelligent Hardware, 2019.</li> <li>Yan Z, Xiang X. Scene Flow Estimation: A Survey, arXiv preprint arXiv:1612.02590, 2016.</li> <li>Wang X, Pan Y, Yan Z, et al. Visual-Inertial Odometry based on Kinematic Constraints in IMU Frames. IEEE Robotics and Automation Letters (RA-L), 2022.</li> <li>Wang Q, Yan Z, Wang J, et al. Line Flow based Simultaneous Localization and Mapping. IEEE Trans. Robotics (T-RO), 2021.</li> </ul>			
Research Projects	Incremental Map Construct	ion	SenseTime, 2019 - present	
	<ul> <li>Active mapping with an implicit neural representation, submitted paper in 2023</li> <li>Representation efficiency and updating efficiency of scene geometry, CVPR 2021</li> </ul>			
	Fast 3D Reconstruction on	a Biomimetic Vision Syst	em BIT, 2019 - 2021	
	$\bullet$ Efficient indoor/outdoor modeling with a binocular biomimetic camera			
	<ul><li>Indoor Scene Reconstructio</li><li>Efficient indoor reconstruction</li></ul>	n in Real-time on with an RGB-D camera	BOE, 2018	

INTERNSHIP	Intel Labs China, Beijing, China	2020.12 - 2022.12		
	<ul> <li>Task-incremental learning for implicit neural representations</li> <li>The intransigence-forgetting trade-offs in continual learning</li> <li>Continual learning for implicit neural map updating, ICCV 2021</li> </ul>			
Patent	Zha H, Yan Z, Fang Y, Jiang L. An Approach and Device for Localization and Reconstruction. 2020 National Invention Patent, CN111598927A			
Awards	Award for Scientific Research, Peking University 1st place (V-SLAM group) in SLAM-for-AR Competition, ISMAR	2021 2019		
SERVICES	Reviewer: CVPR 2020-2023; ICCV 2021-2023; ECCV 2020-2022; ICLR 2 2021-2023; IJCV; RA-L	2023; 3DV 2022; WACV 2020 - present		
	Invited Talk: Continual Neural Mapping: Learning An Implicit Scene Representation from Sequen- tial Observations. <i>TechBeat Webinar</i> 2021			
	Invited Talk: Trends in Implicit Neural Representations. CVRVT Doctoral	l Colloquium 2021		