





Apr 2023

SF

Neural-PBIR Reconstruction of Shape, Material, and Illumination	ICCV 2023		
Cheng Sun*, Guangyan Cai*, Zhengqin Li, Kai Yan, Cheng Zhang, Carl Marshall, Jia-Bin Huang, Shuang Zhao, Zhao Dong	[Paper], [Code		
Hashing Neural Video Decomposition with Multiplicative Residuals in Space-Time Cheng-Hung Chan, Cheng-Yang Yuan, Cheng Sun, Hwann-Tzong Chen Data Efficient 3D Learner via Knowledge Transferred from 2D Model Ping-Chung Yu, Cheng Sun, Min Sun	ICCV 2023 [Paper], [Code] ECCV 2022 [Paper], [Code]		
		Multiview Regenerative Morphing with Dual Flows	ECCV 2022
		Chih-Jung Tsai, Cheng Sun, Hwann-Tzong Chen	[Paper], [Code], [Project page]
		Direct Voxel Grid Optimization: Super-fast Convergence for Radiance Fields Reconst	ruction CVPR 2022 (oral,
Cheng Sun, Min Sun, Hwann-Tzong Chen	[Paper], [Code], [Project page]		
3D scene reconstruction from multiple images. Achieved <u>state-of-the-art quality</u> with <u>more</u> optimization time (10–20+ hrs to 5 mins per scene).	nan 100 times speedup in		
Specialize and Fuse: Pyramid Output Representation for Semantic Segmentation	ICCV 2021		
Chi-Wei Hsiao*, Cheng Sun*, Hwann-Tzong Chen, Min Sun	[Paper]		
HoHoNet: 360 Indoor Holistic Understanding with Latent Horizontal Features	CVPR 2021		
Cheng Sun, Min Sun, Hwann-Tzong Chen	[Paper], [Code]		
Indoor Panorama Planar 3D Reconstruction via Divide and Conquer	CVPR 2021 (oral)		
Cheng Sun, Chi-Wei Hsiao, Ning-Hsu Wang , Min Sun, Hwann-Tzong Chen	[Paper], [Code]		
HorizonNet: Learning Room Layout with 1D Representation and Pano Stretch Data A	Augmentation CVPR 2019		
Cheng Sun, Chi-Wei Hsiao, Min Sun, Hwann-Tzong Chen	[Paper], [Code]		
Room layout reconstruction from a 360 image. Proposed a novel layout format which now in this task.	have been widely adopted		
DUCATION			
National Tsing Hua University	Sep 2018 - Aug 2023		
Ph.D. in Institute of Information System and Application Advisors: Prof. Hwann-Tzong Chen and Prof. Min Sun.	GPA: 4.28 / 4.3		
National Chiao Tung University	Aug 2014 - Jan 2018		
B.S. in Computer Science	GPA: 3.87 / 4.0		
XPERIENCE			
Research Scientist, NVIDIA Research Taiwan	Oct 2023 - now		
Computer Vision Research Intern, Aeolus Robotics	Feb 2023 - Aug 2023		
Research Scientist Intern, Meta Reality Labs	June 2022 - Dec 2022		

Google Conference Scholarships May 2022 ASUS Intelligent Cloud Services (AICS) Ph.D. Scholarship Sep 2020 - Apr 2022 Novatek M.S. Scholarship Aug 2019 - July 2020

Phi Tau Phi Scholastic Honor Society Honorary Membership