Contact Information	DGIST (Daegu Gyeongbuk Institute of Science and Technology Dept. Electrical Engineering and Computer Science (EECS), E3-319, Techno jungang-daero 333, Hyeonpung-eup, Google Dalseong-gun, Daegu, Republic of Korea, 42988 Homepage :	E-mail : smu06117@dgist.ac.kr scholar: user=7zAhXNIAAAAJ	
Research Interests	Computer Vision (3D perception tasks, Scene Understanding) Deep Learning (Multi-task Learning, Meta Learning, Dynamic Neural Networks) Applications (Autonomous driving, AR/VR)		
Education	M.S Ph.D. Integrated Course, Electrical Engineering & Computer Sciences (EECS), DGIST, South Korea	Mar. 2022 – present Advisor : Prof. Sunghoon Im	
	Visiting Scholar, Psychiatry & Behavioral Sciences,Stanford University, United States of AmericaA	Sep. 2024 – Dec. 2024 Advisor: Prof. Kilian M. Pohl	
	Bachelor of Convergence Science, DGIST, South Korea	Mar. 2018 – Feb. 2022	
	Exchange Student, UC Berkeley, United States of America	Jun. 2018 – Aug. 2018	
	Hansung Science High School, South Korea	Mar. 2015 – Feb. 2018	
Publications	Wonhyeok Choi* , Kyumin Hwang*, Kiljoon Han, Wonjoon Choi, Minwoo Choi, Yongcheon Na, Minwoo Park, Sunghoon Im. "Learning Scale-invariant and View-relational Representations for Full Surround Monocular Depth Estimation", (Under Review)		
	Wonhyeok Choi, Wei Peng, Kyumin Hwang, Minwoo Choi, Sanghyun Park, Kilian M. Pohl, Sunghoon Im. "Abnormality-aware Multi-Task Learning for 3D Brain MRI Using Dynamic Neural Networks", (Under Review)		
	Wonhyeok Choi* , Kyumin Hwang*, Wei Peng, Minwoo Choi, Sunghoon Im. "Self-supervised Monocu- lar Depth Estimation Robust to Reflective Surface Leveraged by Triplet Mining", International Conference on Learning Representations (ICLR), Apr 2025.		
	Wonhyeok Choi* , Kyumin Hwang*, Minwoo Choi, Kiljoon Han, Wonjoon Choi, Mingyu Shin, Sunghoon Im. "Intrinsic Image Decomposition for Robust Self-supervised Monocular Depth Estimation on Reflective Surfaces", The Association for the Advancement of Artificial Intelligence (AAAI), Feb 2025.		
	Wonhyeok Choi*, Mingyu Shin*, Hyukzae Lee, Jaehoon Cho, Jaehyeon Park, Sunghoon Im. "Multi- task Learning for Real-time Autonomous Driving leveraging Task-wise Attention Generator", IEEE International Conference on Robotics and Automation (ICRA), May 2024.		
	Wonhyeok Choi* , Mingyu Shin*, Sunghoon Im. "Depth-discriminative Metric Learning for Monocular 3D Object Detection", Neural Information Processing Systems (NeurIPS), Dec 2023.		
	Wonhyeok Choi, Sunghoon Im. "Dynamic Neural Network for Multi-Task Learning Searching across Diverse Network Topologies", IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Jun 2023.		

Seunghun Lee, **Wonhyeok Choi**, Changjae Kim, Minwoo Choi, Sunghoon Im. "ADAS: A Direct Adaptation Strategy for Multi-Target Domain Adaptive Semantic Segmentation", IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), Jun 2022.

Academic	Awards		
Activities	 Top Prize, 16th ICT Paper Competition and Grand Exhibition, — Electronic News 	Dec. 2024	:
	• 3rd Prize, 30th HumanTech Paper Award,	Feb. 2024	Ļ
	— Samsung Electronics Co., Ltd.		
	• Outstanding Researcher Award,	Dec. 2023	;
	— Electronic Engineering & Computer Sciences, DGIST		
	• Excellence Prize, 15th ICT Paper Competition and Grand Exhibition,	Dec. 2023	;
	— Electronic News		
	Kyu-Young Hwang Outstanding Research Award,	Oct. 2023	i
	— Electronic Engineering & Computer Sciences, DGIST		
	• Top Prize, Autonomous Driving AI Development Challenge,	Oct. 2023	;
	 — Ministry of Land, Infrastructure and Transport 		
	Participation Prize, 28th HumanTech Paper Award,	Feb. 2022	2
	— Samsung Electronics Co., Ltd.		
	Reviewer		
	International Conference on Medical Image Computing & Computer-Assisted Intervention	n (MICCAI) 202	25
	• International Conference on Learning Representations (ICLR)	202	25
	• International Conference on Machine Learning (ICML)	202	25
	Neural Information Processing Systems (NeurIPS)	2024 - 202	25
	• IEEE Robotics and Automation Letters (RA-L)	2024 - 202	
	• IEEE International Conference on Robotics and Automation (ICRA)	2024 - 202	
	• IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2023 - 202	25
	• IEEE International Conference on Computer Vision (ICCV)	2023 - 202	
	• The European Conference on Computer Vision (ECCV)	202	
Patents	Registration		
	METHOD FOR MONOCULAR DEPTH ESTIMATION,		
	Publication date: Dec. 27, 2024	(10-2024-0098600	0)
	METHOD FOR MONOCULAR DEPTH ESTIMATION ON REFLECTIV	E SURFACE,	
		(10-2024-0098600	
	METHOD FOR MOBILITY DEVICES LEVERAGING ARTIFICIAL INTELLIGENCE-BASED		
	MULTI-TASK PROCESSING,	(10 2024 004017	0)
	Publication date: Mar. 25, 2024METHOD FOR ESTIMATING DEPTH FROM MONOCULAR CAMERA	(10-2024-0040179 MACES	9)
		(10-2023-0087465	5)
	METHOD AND APPARATUS FOR MULTI-TASK LEARNING,		~)
		(10-2023-0021790	0)
	• METHOD AND APPARATUS FOR DOMAIN ADAPTATION,		,
			•

Publication date:Jul. 14, 2022(10-2022-0087222)• METHOD AND APPARATUS FOR DOMAIN ADAPTATION,
Publication date:Jul. 13, 2022(10-2022-0086614)

Skills	Languages: Python, C, C++, C#
	Theory: Type theory, Operation systems, Data structures, and Computer algorithms.
	Development: Pytorch, HTML, CSS