

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, Dalseong-gun, Daegu, Republic of Korea, 42988	Tel.: +82-10-2997-2903 E-mail: <a href="mailto:smu06117@dgist.ac.kr">smu06117@dgist.ac.kr</a> h.p.: <a href="https://wonhyeok-choi.github.io/">https://wonhyeok-choi.github.io/</a>
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	Visiting Scholar in Psychiatry & Behavioral Sciences, Stanford, United States of America	Sep. 2024 – Dec. 2024 Advisor: Prof. Kilian M. Pohl
	M.S. - Ph.D. Integrated Course in Electrical Engineering & Computer Sciences (EECS), DGIST, South Korea	Mar. 2022 – present Advisor: Prof. Sunghoon Im
	Exchange Student, UC Berkeley, United States of America	Jun. 2018 – Aug. 2018
	Bachelor of Convergence Science, DGIST, South Korea	Mar. 2018 – Feb. 2022
PUBLICATIONS	<b>Wonhyeok Choi*</b> , Kyumin Hwang*, Wei Peng, Minwoo Choi, Sunghoon Im. “Self-supervised Monocular Depth Estimation Robust to Reflective Surface Leveraged by Triplet Mining”, International Conference on Learning Representations (ICLR), Apr 2025.	
	<b>Wonhyeok Choi*</b> , 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.	
	<b>Wonhyeok Choi*</b> , 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.	
	<b>Wonhyeok Choi*</b> , Mingyu Shin*, Sunghoon Im. “Depth-discriminative Metric Learning for Monocular 3D Object Detection”, Neural Information Processing Systems (NeurIPS), Dec 2023.	
	<b>Wonhyeok Choi</b> , 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, <b>Wonhyeok Choi</b> , 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 ACTIVITIES	<b>Awards</b>	
	• Top Prize, 16th ICT Paper Competition and Grand Exhibition, — Electronic News	Dec. 2024
	• 3rd Prize, 30th HumanTech Paper Award, — Samsung Electronics Co., Ltd.	Feb. 2024
	• Outstanding Researcher Award, — Electronic Engineering & Computer Sciences, DGIST	Dec. 2023
	• Excellence Prize, 15th ICT Paper Competition and Grand Exhibition, — Electronic News	Dec. 2023
	• Kyu-Young Hwang Outstanding Research Award, — Electronic Engineering & Computer Sciences, DGIST	Oct. 2023
	• Top Prize, Autonomous Driving AI Development Challenge, — Ministry of Land, Infrastructure and Transport	Oct. 2023
	• Participation Prize, 28th HumanTech Paper Award, — Samsung Electronics Co., Ltd.	Feb. 2022
ACADEMIC ACTIVITIES	<b>Reviewer</b>	
	• International Conference on Learning Representations (ICLR)	2025
	• International Conference on Machine Learning (ICML)	2025
	• IEEE Robotics and Automation Letters (RA-L)	2024 – 2025
	• IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2023 – 2025
	• IEEE International Conference on Computer Vision (ICCV)	2023 – 2024
	• IEEE International Conference on Robotics and Automation (ICRA)	2024
	• The European Conference on Computer Vision (ECCV)	2024
SKILLS	• Neural Information Processing Systems (NeurIPS)	2024
	<b>Languages:</b> Python, C, C++, C#	
	<b>Theory:</b> Type theory, Operation systems, Data structures, and Computer algorithms.	
	<b>Development:</b> Pytorch, HTML, CSS	
PATENTS	<b>Registration</b>	
	• METHOD FOR MONOCULAR DEPTH ESTIMATION, Publication date: Dec. 27, 2024	(10-2024-0098600)
	• METHOD FOR MONOCULAR DEPTH ESTIMATION ON REFLECTIVE SURFACE, Publication date: Jul. 25, 2024	(10-2024-0098600)
	• METHOD FOR MOBILITY DEVICES LEVERAGING ARTIFICIAL INTELLIGENCE-BASED MULTI-TASK PROCESSING, Publication date: Mar. 25, 2024	(10-2024-0040179)
	• METHOD FOR ESTIMATING DEPTH FROM MONOCULAR CAMERA IMAGES, Publication date: Jul. 26, 2023	(10-2023-0087465)
	• METHOD AND APPARATUS FOR MULTI-TASK LEARNING, Publication date: Feb. 17, 2023	(10-2023-0021790)
	• 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)