

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	M.S. - Ph.D. Integrated Course in Electrical Engineering & Computer Sciences (EECS), DGIST, South Korea  Bachelor of Convergence Science, DGIST, South Korea	Mar. 2022 – Advisor: Prof. Sunghoon Im  Mar. 2018 – Feb. 2022
PUBLICATIONS	<p><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), Under Review.</p> <p><b>Wonhyeok Choi*</b>, Mingyu Shin*, Sunghoon Im. “Depth-discriminative Metric Learning for Monocular 3D Object Detection”, Neural Information Processing Systems (NeurIPS), Dec 2023.</p> <p><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.</p> <p>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.</p>	
ACADEMIC ACTIVITIES	<b>Reviewer</b> <ul style="list-style-type: none"><li>IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2023 –</li><li>IEEE International Conference on Computer Vision (ICCV) 2023 –</li><li>IEEE International Conference on Robotics and Automation (ICRA) 2024 –</li></ul> <b>Awards</b> <ul style="list-style-type: none"><li>Grand Prize, Autonomous Driving AI Development Challenge, — Ministry of Land, Infrastructure and Transport Oct. 2023</li><li>Participation Prize, 28th HumanTech Paper Award, — Samsung Electronics Co., Ltd. Feb. 2022</li></ul>	
SKILLS	<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

### Registration

- 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)