
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: smu06117@dgist.ac.kr h.p.: https://wonhyeok-choi.github.io/
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	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), Jan 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
ACTIVITIES

Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2023 – 2024
- IEEE International Conference on Computer Vision (ICCV) 2023
- The European Conference on Computer Vision (ECCV) 2024
- IEEE International Conference on Robotics and Automation (ICRA) 2024

Awards

- 3rd Prize, 30th HumanTech Paper Award, Feb. 2024
— 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
— Electronic Engineering & Computer Sciences, DGIST
- Grand Prize, Autonomous Driving AI Development Challenge, Oct. 2023
— Ministry of Land, Infrastructure and Transport
- Participation Prize, 28th HumanTech Paper Award, Feb. 2022
— Samsung Electronics Co., Ltd.

SKILLS

Languages: Python, C, C++, C#

Theory: Type theory, Operation systems, Data structures, and Computer algorithms.

Development: Pytorch, HTML, CSS

PATENTS

Registration

- METHOD FOR ESTIMATING DEPTH FROM MONOCULAR CAMERA IMAGES, (10-2023-0087465)
Publication date: Jul. 26, 2023.
- METHOD AND APPARATUS FOR MULTI-TASK LEARNING, (10-2023-0021790)
Publication date: Feb. 17, 2023
- METHOD AND APPARATUS FOR DOMAIN ADAPTATION, (10-2022-0087222)
Publication date: Jul. 14, 2022
- METHOD AND APPARATUS FOR DOMAIN ADAPTATION, (10-2022-0086614)
Publication date: Jul. 13, 2022