

Geonsoo Lee

Master's Student in [Chungnam National University \(CVIP Lab.\)](#)
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Website	<ul style="list-style-type: none">• Github: https://github.com/2gunsu• LinkedIn: https://www.linkedin.com/in/geonsoo-lee• Personal Site: https://www.geonsoo-lee.com
Skills	<ul style="list-style-type: none">• Language: Korean, English• Programming: Python, Matlab, C/C++• Framework: Pytorch, Detectron2, mmdetection3d
Principal Interests	Computer Vision, Machine Learning, Autonomous Driving, Monocular 3D Object Detection, Depth Estimation, Sensor Fusion
Academic Background	<div><div><i>M.S., Electronic Engineering</i> Chungnam National University, Daejeon, South Korea</div><div>Mar 2021 - Feb 2023 (Scheduled)</div><ul style="list-style-type: none">• GPA: 4.38/4.50• Thesis: Robust Object Detection Methods for Multiple Domains with Insufficient Labels• Advisor: Prof. Donghyeon Cho</div> <div><div><i>B.S., Electronic Engineering</i> Chungnam National University, Daejeon, South Korea</div><div>Mar 2015 - Feb 2021</div><ul style="list-style-type: none">• GPA: 4.24/4.50 (Rank in Class 3 out of 70)</div>
International Journal	<ol style="list-style-type: none">2. Geonsoo Lee, Jaekyu Lee, Jeonghyun Baek, Hoseong Kim, and Donghyeon Cho, Channel Sampler in Hyperspectral Images for Vehicle Detection, <i>IEEE Geoscience and Remote Sensing Letters</i>, Oct 20211. Geonsoo Lee[*], Sungeun Hong[*], and Donghyeon Cho, Self-supervised Feature Enhancement Networks for Small Object Detection in Noisy Images, <i>IEEE Signal Processing Letter</i>, May 2021
International Conference	<ol style="list-style-type: none">1. Dae-Young Song, Geonsoo Lee, Heekyung Lee, Gi-Mun Um, and Donghyeon Cho, Weakly-Supervised Stitching Network for Real-World Panoramic Image Generation, <i>European Conference on Computer Vision (ECCV)</i>, Jul 2022
Projects	<div><div><i>Personal</i> <i>Reimplementation for MonoCon (AAAI, 2022)</i></div><div>Aug 2022 - Sep 2022</div><ul style="list-style-type: none">• Pytorch Re-implementation of MonoCon• Enhance Reproducibility by Removing Dependency on External Framework and Adding 3D Augmentation Method• Project Page: https://github.com/2gunsu/monocon-pytorch</div>

	<i>National Research Foundation of Korea (NRF)</i> <i>Terahertz Wireless System for Cooperative Intelligent Edge Laboratory</i>	Jun 2021 (In Progress)
	<ul style="list-style-type: none"> Development of Intelligent Terahertz Radar Communication Wireless System and Collaboration Network 	
	<i>Personal</i> <i>Self-Supervised Feature Enhancement Networks</i>	Nov 2020 - May 2021
	<ul style="list-style-type: none"> Feature Activation Enhancement for Small Object Detection (SOD) Project Page: https://github.com/2gunsu/SPL2021-FEN 	
	<i>Agency for Defense Development (ADD)</i> <i>Big Data Analysis for Hyper Spectral Images</i>	May 2020 - Nov 2021
	<ul style="list-style-type: none"> Efficient Band Estimation in Hyperspectral Images for Vehicle Detection Hypercube Compression 	
	<i>Capstone Design</i> <i>Noise-Robust Traffic Density Estimation</i>	Mar 2020 - Dec 2020
	<ul style="list-style-type: none"> Reliable Traffic Density Estimation from Noisy Satellite Imagery Project Page 1: https://github.com/2gunsu/Traffic-Density-Estimator Project Page 2: https://github.com/EadCat/Road-Extraction 	
Awards	<i>Outstanding Paper Award</i> Chungnam National University Institute of Technology for Convergence and Innovation	Feb 2022
	<i>Outstanding Research Award</i> Chungnam National University Graduate School	Aug 2021
	<i>AI Bootcamp Hackathon (Bronze Prize)</i> Software-Centered University Program in Chungnam National University	Aug 2020
Teaching Experience	Teaching Assistant Computer Programming 2 (1213-1004) Instructor: Donghyeon Cho Department of Electronic Engineering, Chungnam National University	Sep 2022 - Oct 2022
	Teaching Assistant Computer Programming 2 (38645-00) Instructor: Donghyeon Cho Department of Electronic Engineering, Chungnam National University	Sep 2021 - Dec 2021
	Teaching Assistant DSP and Filter (27255-00) Instructor: Donghyeon Cho Department of Electronic Engineering, Chungnam National University	Mar 2021 - Jun 2021