

Dongki Jung

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EMPLOYMENT

NAVER LABS

- Robotics Perception Engineer
- Research Intern at Computer Vision Team
- Adviser: PhD. Donghwan Lee

Apr 2021 – Present
Sep 2020 – Mar 2021

EDUCATION

Korea Advanced Institute of Technology (KAIST)

- M.S. in Electrical Engineering
- Adviser: Prof. Changick Kim
- Cumulative GPA of 3.8 / 4.3

Feb 2019 – Feb 2021

Korea University

- B.S. in Electrical Engineering
- Auxiliary Police (mandatory military service)
- Cumulative GPA of 4.03 / 4.5

Mar 2013 – Feb 2019
May 2014 – Feb 2016

RESEARCH INTERESTS

Depth Estimation, Visual Localization, and Multi-View Stereo

PUBLICATIONS

INTERNATIONAL CONFERENCES

- [1] **Dongki Jung***, Jaehoon Choi*, Yonghan Lee, Deokhwa Kim, Changick Kim, Dinesh Manocha, Donghwan Lee, “DnD: Dense Depth Estimation in Crowded Indoor Dynamic Scenes,” Accepted to *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021. (* These two authors contributed equally)
- [2] Taekyung Kim, Jaehoon Choi, Seokeon Choi, **Dongki Jung**, Changick Kim, “A Few Depth Points are All You Need for Multi-view Stereo: A Novel Semi-supervised Learning Method for Multi-view Stereo,” Accepted to *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2021.
- [3] Jaehoon Choi, **Dongki Jung**, Yonghan Lee, Deokhwa Kim, Dinesh Manocha, and Donghwan Lee, “SelfDeco: Self-Supervised Monocular Depth Completion in Challenging Indoor Environments,” Accepted to *The IEEE International Conference on Robotics and Automation (ICRA)*, 2021.
- [4] Jaehoon Choi*, **Dongki Jung***, Donghwan Lee, Changick Kim, “SAFENet: Self-Supervised Monocular Depth Estimation with Semantic-Aware Feature Extraction,” Accepted to *The 34th Annual Conference on Neural Information Processing Systems Workshop (NeurIPS W)*, Vancouver, Canada, 2020. (* These two authors contributed equally)
- [5] **Dongki Jung**, Seunghan Yang, Jaehoon Choi, and Changick Kim, “Arbitrary Style Transfer Using Graph Instance Normalization,” Accepted to *The 27th IEEE International Conference on Image Processing (ICIP)*, Abu Dhabi, UAE, Oct. 22-28, 2020.
- [6] Seunghan Yang, Youngeun Kim, **Dongki Jung**, Changick Kim, “Partial Domain Adaptation Using Graph Convolutional Networks,” *arXiv* 2020.

OTHER PUBLICATIONS

- [1] **Dongki Jung**, Jaehoon Choi, and Changick Kim, “Multi-task Learning with Domain Adaptation,” in *Proc. the 29th Korean Signal Processing Conference*, pp. 102-105, KAIST, Daejeon, Sep. 26-27, 2019.

CHALLENGES

INTERNATIONAL CHALLENGES

- [1] **3rd place** in the Track 3: City-Scale Multi-Camera Vehicle Tracking at **AI City Challenge** held in *IEEE Conference on Computer Vision and Pattern Recognition Workshop* 2020

PROJECT EXPERIENCE

- 3D Object Recognition Algorithm for Autonomous Driving
● Funded by **LG Electronics Co., Ltd**
● Aimed at Developing the 2D object detection and depth estimation for cross-modality of RGB images and FIR images.
May 2019 – Nov 2019
- 3D Object Recognition Algorithm for Indoor Scenes
● Funded by **LG Electronics Co., Ltd**
● Aimed at Developing the 2D object detection and depth estimation using FIR images.
Jun 2020 – Present

ADDITIONAL ACTIVITIES	<ul style="list-style-type: none"> ■ Volunteer Experience <ul style="list-style-type: none"> ● participated in the Public Relations group of Seoul Volunteer Center 	Sep 2013 – Dec 2013
	<ul style="list-style-type: none"> ■ Research Intern (Adviser : Professor Hanseok Ko) <i>Intelligent Signal Processing Laboratory, Korea University</i> <ul style="list-style-type: none"> ● participated in ATM vandalism action recognition (Funded by <i>Nautilus HYOSUNG</i>) ● Aimed at making the ATM vandalism dataset with own annotation and object detection with YOLOv2 	Mar 2018 – Jun 2018
AWARDS	<ul style="list-style-type: none"> ■ Academic Achievement Award, Korea University, 2016, 2017 ■ YooJung Scholarship, YooJung Scholarship Foundation, 2017, 2018 	
LANGUAGES	<ul style="list-style-type: none"> ■ Korean: Native language. ■ English: Business Level (speaking, reading, writing). <ul style="list-style-type: none"> ● TOEIC : 905 / 990 	
SKILLS	Python, MATLAB, C, \LaTeX , PyTorch, TensorFlow,	
REFERENCES	<ul style="list-style-type: none"> ■ Donghwan Lee Computer Vision Team Leader @ NAVER LABS 8 Gumi-ro, Gumi 1(il)-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea donghwan.lee@naverlabs.com 	
	<ul style="list-style-type: none"> ■ Professor Changick Kim Professor in School of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST) R413, ITC Building, KAIST, Yuseong-gu, Daejeon, Korea changick@kaist.ac.kr ● +82-42-350-7421 	

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