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Dongki Jung

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EMPLOYMENT

NAVER LABS

- Robotics Vision 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] Jaehoon Choi*, **Dongki Jung***, Yonghan Lee, Deokhwa Kim, Dinesh Manocha, Donghwan Lee, “SelfTune: Metrically Scaled Monocular Depth Estimation through Self-Supervised Learning,” Accepted to *The IEEE International Conference on Robotics and Automation (ICRA)*, 2022. (* These two authors contributed equally)
- [2] **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)
- [3] 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.
- [4] 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.
- [5] 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)
- [6] **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.
- [7] Seunghan Yang, Youngeun Kim, **Dongki Jung**, Changick Kim, “Partial Domain Adaptation Using Graph Convolutional Networks,” *arXiv* 2020.

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

- Volunteer Experience
● participated in the Public Relations group of Seoul Volunteer Center
Sep 2013 – Dec 2013
- Research Intern (Adviser : Professor Hanseok Ko)
Intelligent Signal Processing Laboratory, Korea University
● participated in ATM vandalism action recognition (Funded by *Nautilus HYOSUNG*)
● Aimed at making the ATM vandalism dataset with own annotation and object detection with YOLOv2
Mar 2018 – Jun 2018

AWARDS

- Academic Achievement Award, Korea University, 2016, 2017
- YooJung Scholarship, YooJung Scholarship Foundation, 2017, 2018

LANGUAGES

- Korean: Native language.
- English: Business Level (speaking, reading, writing).
 - TOEIC : 905 / 990

SKILLS

Python, MATLAB, C, \LaTeX , PyTorch, TensorFlow,

REFERENCES

- **Donghwan Lee**
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