Dongki Jung

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EMPLOYMENT

NAVER LABS

- Spatial AI Engineer — Mar 2022 – Present
- Robotics Vision Engineer — Apr 2021 – Feb 2022
- Research Intern at Computer Vision Team — Sep 2020 – Mar 2021
  - Adviser: PhD. Donghwan Lee

EDUCATION

Korea Advanced Institute of Technology (KAIST)

- M.S. in Electrical Engineering — Feb 2019 – Feb 2021
  - Adviser: Prof. Changick Kim
  - Cumulative GPA of 3.8 / 4.3

Korea University

- B.S. in Electrical Engineering — Mar 2013 – Feb 2019
  - Auxiliary Police (mandatory military service) — May 2014 – Feb 2016
  - Cumulative GPA of 4.03 / 4.5

RESEARCH INTERESTS

3D Reconstruction, Neural Rendering, and SfM

PUBLICATIONS

INTERNATIONAL CONFERENCES

[1] Jaehoon Choi, **Dongki Jung**, Taejae Lee, Sangwook Kim, Youngdong Jung, Dinesh Manocha, Donghwan Lee, "TMO: Textured Mesh Acquisition of Objects with a Mobile Device by using Differentiable Rendering," Accepted to *The IEEE / CVF Computer Vision and Pattern Recognition Conference (**CVPR**)*, 2023.

[2] 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)

[3] **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)

[4] 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.

[5] 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.

[6] 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 (**NeurIPSW**)*, Vancouver, Canada, 2020. (* These two authors contributed equally)

[7] **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.

[8] 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 — May 2019 – Nov 2019
- 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.

■ 3D Object Recognition Algorithm for Indoor Scenes — Jun 2020 – Present
- Funded by ***LG Electronics Co., Ltd***
- Aimed at Developing the 2D object detection and depth estimation using FIR images.

ADDITIONAL ACTIVITIES

■ Research Intern (Adviser : Professor Hanseok Ko) — Mar 2018 – Jun 2018
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

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**
Computer Vision Team Leader @ NAVER LABS
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■ **Professor Changick Kim**
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[*CV compiled on 2023-06-05*]