

SANGHUN JUNG

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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

2020 - Present

M.S. in Artificial Intelligence

Advisor: Prof. Jaegul Choo

GPA: 4.2 / 4.3

Korea University

2013 - 2019

B.S. in Computer Science and Engineering

GPA: 3.7 / 4.5; Major GPA: 4.11 / 4.5

Military service during 2015 - 2016

RESEARCH INTEREST

Robot learning, robot perception, human-robot interaction, and autonomous driving

PUBLICATIONS

- [5] Minsoo Lee, Chaeyeon Chung, Hojun Cho, Minjung Kim, **Sanghun Jung**, Minhyuk Sung, and Jaegul Choo. 3D-GIF: 3D-Controllable Object Generation via Implicit Factorized Representations with Unposed 2D Images. *Under Review*.
- [4] Kyungmin Jo*, Gyumin Shim*, **Sanghun Jung**, Soyoung Yang, and Jaegul Choo. CG-NeRF: Conditional Generative Neural Radiance Fields. *arXiv preprint: 2112.03517*, 2021. [paper]
- [3] **Sanghun Jung***, Jungsoo Lee*, Daehoon Gwak, Sungha Choi, and Jaegul Choo. Standardized Max Logits: A Simple yet Effective Approach for Identifying Unexpected Road Obstacles in Urban-Scene Segmentation. *International Conference on Computer Vision (ICCV)*, 2021. **Oral Presentation** (3.0% acceptance rate) [paper] [code]
- [2] Sungha Choi*, **Sanghun Jung***, Huiwon Yun, Joanne T. Kim, Seungryong Kim, and Jaegul Choo. RobustNet: Improving Domain Generalization in Urban-Scene Segmentation via Instance Selective Whitening. *Computer Vision and Pattern Recognition (CVPR)*, 2021. **Oral Presentation** (4.1% acceptance rate) [paper] [code]
- [1] Jinho Choi, **Sanghun Jung**, Deokgun Park, Jaegul Choo, and Niklas Elmquist. Visualizing for the Non-Visual: Enabling the Visually Impaired to Use Visualization. *Computer Graphics Forum (EuroVIS)*, 2019. [paper]

PATENTS

- [2] **Sanghun Jung**, Henry A. Leinhos, Fangwei Li, Ina Liu. Method, System, and Non-Transitory Computer-Readable Recording Medium for Controlling a Robot. *US Patent in Progress*
- [1] Bryant L. Pong, Henry A. Leinhos, **Sanghun Jung**. Method, System, and Non-Transitory Computer-Readable Recording Medium for Controlling Movement of a Robot. *US Patent in Progress*

WORK EXPERIENCE

Bear Robotics Korea

Seoul, South Korea

Robotics Engineer

2019 - 2020

Conducted projects such as safe velocity controller and odometry and localization testing

Bear Robotics

Redwood City, CA, US

Robotics Engineering Intern

2018 - 2019

Developed robot algorithms such as depth camera extrinsic calibration

SCHOLARSHIP

KAIST Support Scholarship , KAIST	2020, 2021
Veritas Program Scholarship , Korea University	2018
Academic Excellence Scholarship for Freshmen , Korea University	2013

INVITED TALKS

Hyundai Motor Group AI Research Seminar Domain Generalization in Urban-Scene Segmentation	July, 2021
Naver AI LAB RobustNet: Improving Domain Generalization in Segmentation	July, 2021

LANGUAGES

English: fluent, TOEFL: 102 (RC: 29, LC: 26, SPK: 23, WRT: 24)
Korean: native

PROGRAMMING SKILLS

Languages: Python, C++, Bash
Technologies: Pytorch, Docker, Linux, Robot Operating System (ROS1)