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Sibaek Lee(Minjae Lee)

Contact information

- Combined MS-Phd students in the Laboratory of Artificial Intelligence and Robotics (LAIR)
- RM Seobu-ro, Cooperation Center #85129, Jangan-gu, Suwon-si, Gyeonggi-do, Korea
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Education

- 2024.03 Present: M.S. & Ph.D. in School of Intelligent Robots at Sungkyunkwan University (SKKU)
- 2023.03 2024.02 : M.S. & Ph.D. in School of Artificial Intelligence at Ulsan National Institute of Science and Technology (UNIST)
- 2016.03 2023.02 : B.S. major in School of **Computer Science** and minor in **Mechanical Engineering** at Ulsan National Institute of Science and Technology (UNIST)

Research intersets

- Deep Learning: 3D visioin, Language model, Bayesian learning, Generative model
- Robotics: Simultaneous Localization and Mapping (SLAM), Robot Perception, Adaptive Robot

Publications

Bayesian NeRF: Quantifying Uncertainty with Volume Density in Neural Radiance Fields
 Sibaek Lee, Kyeongsu Kang, Hyeonwoo Yu
 (arxiv), 2024

[Paper] [Code] [Video]

• Just Flip: Flipped Observation Generation and Optimization for Neural Radiance Fields to Cover Unobserved View

Minjae Lee, Kyeongsu Kang, Hyeonwoo Yu

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024 (**Oral pitch & interactive presentation**)

[Paper] [Code] [Video]

 Necessity Feature Correspondence Estimation for Large-scale Global Place Recognition and Relocalization

Kyeongsu Kang, Minjae Lee, Hyeonwoo Yu

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(arxiv), 2023 [Paper] [Code]

• Literature review on Transformers in object detection

Elkhan Ismayilzada, **Minjae Lee** and Seungryul Baek Korean Artificial Intelligence Association (CKAIA), 2022

Free-form masked facial image inpainting via exploiting 2D and 3D information
 Jihyeon Kim, Junuk Cha, Yeongjun Choo, Minjae Lee, Jitae Yoo, Yeonghun Oh, Hoseong Cho, Eunseo Kim, Chungseok Choi, Honggyu Lim, Donguk Min1, Eugene Shin, Seokun Kang and Seungryul Baek Korean Artificial Intelligence Association (CKAIA), 2022

Work Experience

• 2024.08 (Expected) -: 3D Vision & Deep Learning Research Intern at Naver Labs

2024.03 - Present : Research Intern at Artificial Intelligence and Robotics Lab (SKKU)
 Supervisor : Hyeonwoo Yu

2022.08 - 2024.02 : Research Intern at Artificial Intelligence and Robotics Lab (UNIST)
 Supervisor : Hyeonwoo Yu

2021.06 - 2022.07 : Research Intern at Applied Cryptography Lab (UNIST)
 Supervisor: Miran Kim

Conference Review

- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023

Presentation

- Korean Artificial Intelligence Association (CKAIA) Poster Session "Literature review on Transformers in object detection" (2022.11.18)
- UNIST Artificial Intelligence Challengers Program (AICP) Poster Session "Just Flip" (2023.11.14)
- LG DX Intensive Course, "Privacy-Preserving Machine Learning" (2022.08.03)
- LG DX Intensive Course, "Computer Vision" (2022.07.14)
- LG DX Intensive Course, "Privacy-Preserving Machine Learning" (2021.10.22)

Languages

Korean: Native ★★★★★

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