

GOEUN KIM

Master's Degree in Interdisciplinary Program in Bioengineering
Seoul National University
1, Gwanak-ro, Gwanak-gu, Seoul, Republic of Korea
goeun678@gmail.com & kkm5020@naver.com
+82) 010-7939-1908
<https://groovy52.github.io/>

EDUCATION

Mar. 2023 ~ Feb. 2025	Seoul National University Interdisciplinary Program in Bioengineering	Seoul, Korea
	Thesis: SALD-Net: A point feature self-attention network for 3D object detection from LiDAR point clouds in a hospital environment <i>Master of Science in Bioengineering</i> GPA: 3.76 / 4.3	
Mar. 2019 ~ Feb. 2023	Gachon University Department of Biomedical Engineering	Seongnam, Korea
	<i>Bachelor of Artificial Intelligence and Biomedical Engineering</i> GPA: 3.98 / 4.5	

RESEARCH INTERESTS

- Computer vision and image processing
- 3d perception
- AI systems for autonomous robotics

RESEARCH EXPERIENCES

- Research Intern at Department of Biomedical Engineering, Gachon University of Medicine and Science, Korea (Jan. 2021 ~ Dec. 2021) / AI-software researcher, Dataset labeling
- Research Intern at Multi-Modality Medical Imaging Lab, Department of Biomedical Engineering, Gachon University, Korea (Jan. 2022 ~ Jun. 2022) / AI Researcher(Data preprocessing and AI modeling)
- Research Intern at AutoML of Chung-Ang University, Korea (Aug. 2022 ~ Dec. 2022) / AI Researcher (AI modeling)

PROJECTS

- RSNA-MICCAI Brain Tumor Radiogenomic Classification, kaggle, United States / Classification algorithm modeling (Oct. 2021 ~ Oct. 2021)

- 위 내시경 영상에서 정상과 위암 분류 모델 개발, Multi-Modality Medical Imaging Lab, Department of Biomedical Engineering, Gachon University, Korea / AI Researcher (Jan. 2022 ~ Jun. 2022)
- TAO(Thyroid Associated Orbitopathy) Object Detection, AutoML of Chung-Ang University, Korea / AI Researcher (AI modeling) (Sep. 2022 ~ Nov. 2022)

PUBLICATIONS (DOMESTIC)

1. Go Eun Kim, Young Jae Kim, Woong Ju, Kyehyun Nam, Soonyung Kim, & Kwang Gi Kim. (2021, October). A Radiomics-based Unread Cervical Imaging Classification Algorithm. Journal of Biomedical Engineering Research, 42(5), 241-249.
2. Goeun Kim, Jaekwan Lim, Changsun Ahn, & Jun-Min Kim. (2023, November). Intelligent Robot-Based Lidar Fusion Integrated Control System Development for Improvement of Medical Environments. Proceedings of KIIT Conference (pp. 277-281).

PUBLICATIONS (SCIE/ESCI)

1. Goeun Kim, Su Yang, Ji Yong Han, Jun-Min Kim, & Won-Jin Yi. (2025, September). SALD-Net: Self-attention-integrated LiDAR-based 3D object detection network in a crowded hospital environment. Signal, Image and Video Processing, 19(14), 1185.

CONFERENCES

1. Goeun Kim, Su Yang, Jun-Min Kim, & Won-Jin Yi, "3D Object Detection Network for Robot Control System in LiDAR Point Clouds", Proceedings of the 2023 Spring Conference of the Korean Society of Medical and Biological Engineering (KOSOMBE), Daegu, Korea (May 2023) – Poster.
2. KwonSoon Yong, Da El Kim, Sujeong Kim, Dahyun Song, Goeun Kim, Won-Jin Yi, "Data Augmentation Method Using CutMix in Medical Image Segmentation," Proceedings of the 2023 Spring Conference of the Korean Society of Medical and Biological Engineering (KOSOMBE), Daegu, Korea (May. 2023) – Poster.
3. Goeun Kim, Won-Jin Yi, "Anatomical Structure Segmentation Network for Dental Panoramic Images Using Generative Adversarial Network-Based Data Augmentation", Conference on Information and Control Systems (CICS), Gangneung, Korea (Oct. 2023) – Poster.
4. Goeun Kim, Jaekwan Lim, Changsun Ahn, Jun-Min Kim, "Intelligent Robot-Based Lidar Fusion Integrated Control System Development for Improvement of Medical Environments, Proceedings of KIIT Conference, Jeju, Korea (Nov. 2023) – Oral.
5. Goeun Kim, Su Yang, Sujeong Kim, Dahyun Song, Sang-Heon Lim, Jiyong Han, Sunjung Kim, Won-Jin Yi, "PFA-Net: A point feature attention network for 3D object detection from LiDAR point clouds in a hospital environment", 2024 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Orlando, United States (Jul. 2024) – Poster.

AWARDS AND HONORS

- Academic Excellence Scholarship, Gachon University, Korea (Dec. 2021)

QUALIFICATIONS

- Language: OPic, IH (Intermediate High), 2H7028423534

SKILLS AND TECHNIQUES

- PyTorch
- Docker
- Git
- Linux
- Jupyter Notebook
- Visual Studio code