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
+82) 010-7904-1905
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
Advisor: Won-Jin Yi

Master of Science in Bioengineering
GPA: 3.93 / 4.5

Mar. 2019 ~ Feb. 2023	**Gachon University** Department of Biomedical Engineering	Seongnam, Korea

Bachelor of Artificial Intelligence and Biomedical Engineering
GPA: 3.98 / 4.5

RESEARCH INTERESTS

- Computer vision object recognition
- Computer vision and image processing
- Autonomous driving

RESEARCH EXPERIENCES

- Research Intern at Gachon AI Medical Device R&D Center, Department of Biomedical Engineering, Gachon University of Medicine and Science, Korea (Jan. 2021 ~ Dec. 2021) / Conducted research on an AI-based cervical disease diagnostic system.

- Research Intern at Multi-Modality Medical Imaging Laboratory, Department of Biomedical Engineering, Gachon University, Korea (Jan. 2022 ~ Jun. 2022) / Developed a deep learning–based classification model for distinguishing normal and gastric cancer le

- Research Intern at AutoML Laboratory, Chung-Ang University, Korea (Aug. 2022 ~ Dec. 2022) / Developed a detection and segmentation model for gastrointestinal polyps using endoscopic image data

PROJECTS

- RSNA-MICCAI Brain Tumor Radiogenomic Classification (Kaggle Competition), kaggle, United States / Developed a deep learning classification model to predict molecular characteristics of brain tumor r (Sep. 2021 ~ Oct. 2021)
- Web-based Skin Disease Diagnosis AI Application, Practical AI Project, Gachon University, Korea / Built a deep learning network and implemented an AI-driven web application for skin disease diagnosi (Nov. 2021 ~ Dec. 2021)

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, 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. 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.

3. 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), Olando, United States (Jul. 2024) - Poster.

AWARDS AND HONORS

- Full Academic Excellence Scholarship, Gachon University, Korea (Feb. 2022)

QUALIFICATIONS

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

SKILLS AND TECHNIQUES

- PyTorch
- Linux

- Jupyter Notebook
- Visual Studio code
- Docker
- Git
- Notion

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