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) 010-7939-1908
https://github.com/~~

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

Master of Science in Bioengineering
GPA: 3.76 / 4.3

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

- Machine learning
- Computer vision and image processing
- Medical image diagnosis

PUBLICATIONS (DOMESTIC)

1. 김고은, 김영재, 주웅, 남계헌, 김수녕, 김광기, "자궁경부 영상에서의 라디오믹스 기반 판독 불가 영상 분류 알고리즘 연구", 대한의용생체공학회, (2021)

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

- 자궁경부 영상에서 판독 불가 영상 데이터 자동 분류 알고리즘 개발, Department of Biomedical Engineering, Gachon University of Medicine and Science, Korea / AI Researcher (Jun. 2021 ~ Dec. 2021)

- 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(Thyloid Associated Orbitopathy) Object Detection, AutoML of Chung-Ang University, Korea / AI Researcher (AI modeling) (Sep. 2022 ~ Nov. 2022)

AWARDS AND HONORS

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

RELATED COURSES

- 의공학개론
- 해부학
- 프로그래밍 (Python, C, C++)
- 데이터 과학 (Data Processing and Statics)
- 딥러닝 (Modeling AI algorithm)
- 영상 처리 (Medical Image Processing)
- 의료영상 (Principle of MRI/PET)

SKILLS AND TECHNIQUES

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CONFERENCES

1. 김고은, 양수, 김준민, 이원진, "3D Object Detection Network for Robot Control System in LiDAR Point Clouds", 2023년 대한의용생체공학회 춘계학술대회, Daegu, Korea (May. 2023) - Poster

2. 용권순, 김다엘, 김수정, 송다현, 김고은, 이원진, "Data augmentation method using Cutmix in medical image segmentation", 2023년 대한의용생체공학회 춘계학술대회, Daegu, Korea (May. 2023) - Poster

3. 최민혁, 강세룡, 유지용, 양수, 김다엘, 김수정, 한지용, 임상헌, 송다현, 김고은, 용권순, 이원진, "D-NeRF 를 이용한 CBCT 영상의 동잡음 감소", 대한전자공학회 학술대회, Jeju, Korea (Jun. 2023) - Poster

4. 김고은, 이원진, "생성적 적대 신경망 기반 데이터 증강을 활용한 치과 파노라마 영상의 해부학적 구조 분할 네트워크", 정보 및 제어 학술대회 (CICS), Gangneung, Korea (Oct. 2023) - Poster

5. 김고은, 임재관, 안창선, 김준민, "의료환경 개선을 위한 지능형 로봇의 라이다 융합 통합관제시스템 개발", 한국정보기술학회, Jeju, Korea (Nov. 2023) - Oral

6. 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