



Dongmin Lee

Undergraduate Researcher

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Education

Dong-A University, Undergraduate in Department of Computer Engineering
GPA: 4.44 / 4.5

2020.03 –

Work Experience

Media for Machines Laboratory, Undergraduate Researcher
- Studied deep learning and computer vision.

2023.05 –

Electronics and Telecommunications Research Institute, Internship
- Researched MPEG-AI Feature Coding for Machines(FCM)

2024.07 – 2024.08

Projects

Feature Compression for Machines

2024.02 –

Role: Researcher

Achievements: Enhanced object detection performance through research in FCM Core Experiment 4 : Feature Conversion.

2024 RIS Regional Issue Capstone Design

2024.10 – 2025.02

Role: Researcher

Achievements: Developed sketch to image technology for shoes.

Improving Depth Estimation Performance Using Nvidia Jetson

2023.10 – 2023.12

Role: Researcher

Achievements: Enhancing performance of 2D depth estimation on NVIDIA Jetson.

Video Coding for Machines

2023.09 – 2024.02

Role: Researcher

Achievements: Analyzed technology trends in the MPEG-AI VCM.

Paper

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| End-To-End 딥러닝 기반 코덱을 활용한 FCM 성능 향상 <i>Co-Author, Journal of Broadcast Engineering</i> | 2024.06 |
| E2E 딥러닝 비디오 코덱의 VCM 내부 코덱 적용을 통한 성능 향상에 관한 연구 <i>Co-Author, Journal of Broadcast Engineering</i> | 2024.05 |
| Exploring the Video Coding for Machines Standard: Current Status and Future Directions <i>Lead Author, Journal of Broadcast Engineering</i> | 2023.12 |
| M2M 영상통신을 위한 Video Coding for Machines 표준화 현황 <i>Co-Author, Korea Institute of Communications and Information Sciences</i> | 2023.08 |

Skill

Programming: C, C++, Python, Java

Tools: Git, Docker, PyTorch

Languages: Korean (Native), English (Intermediate)

Area of Interest: Computer Vision, Object Tracking, Object Detection, Deep Learning

Achievement

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| National Science and Engineering Undergraduate Scholarship | 2024.11 |
| Dong-A University AI/SW DevDay: 3rd award | 2024.11 |
| Dong-A University AI/SW DevDay: 3rd award | 2023.12 |
| Dong-A University Coding Contest: 3rd award | 2020.12 |

Appendix