

Youngseo Kim

Undergraduate student in A.I, with concentration in Computer Vision

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Research Interests

Generative Model Multi-modal Fusion

Education

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| Mar. 2019- | University of Sangmyung at Seoul |
| Present | BS. Department of Human-Centered Artificial Intelligence |
| | GPA: 3.92 / 4.5 |

Research & Work Experience

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| Aug. 2021- | Institute of Intelligence Informatics Technology, Sangmyung University |
| Mar. 2022 | Undergraduate Researcher |
| | Development of Human Pose |

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| Apr. 2022- | K-SW Square Spring Program, Purdue University |
| Aug. 2022 | Researcher Intern |
| | Capstone Project, Drone Detection |

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| Sep. 2022- | Computer Vision Lab, Korea University |
| Present | Undergraduate Researcher |
| | Multi-modal Representation Learning |

Publications

- [1] J. Kim, D. Lee, **Y. Kim**, H. shin, Y. Heo, Y. Wang, Eric T. Matson, "Deep Learning Based Malicious Drone Detection Using Acoustic and Image Data," 2022 Sixth IEEE International Conference on Robotic Computing (IRC), Italy, 2022, pp. 91-92, doi: 10.1109/IRC55401.2022.00024.
- [2] Kim, J.; **Kim, Y.**; Shin, H.; Wang, Y. and Matson, E. (2023). How Far Can a Drone be Detected? A Drone-to-Drone Detection System Using Sensor Fusion. In Proceedings of the 15th International Conference on Agents and Artificial Intelligence - Volume 3: ICAART, ISBN 978-989-758-623-1; ISSN 2184-433X, SciTePress, pages 877-884. DOI: 10.5220/0011791000003393
- [3] *preprint "Soundini: Sound-Guided Diffusion for Natural Video Editing", Proceedings of the IEEE/CVF International Conference on Computer Vision. 2023*

Conferences

1. J. Kim, D. Lee, **Y. Kim**, H. shin, Y. Heo, Y. Wang, Eric T. Matson, "2022 Sixth IEEE International Conference on Robotic Computing (IRC)", Italy, Dec. 2022 - poster
2. J. Kim, **Y. Kim**, H. shin, Y. Wang, Eric T. Matson, "15th International Conference on Agents and Artificial Intelligence 2023 (ICAART 2023)", Portugal, Feb. 2023 - poster

Research & Work Experience

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| Sep. 2021- | PBL Project 1 |
| Dec. 2021 | A system that creates the model the casting director wants, using face descriptions |
| | Development of Multimodal Learning |

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| Mar. 2021- July. 2021 | PBL Project 2 Semantic segmentation technology position of a recommendation service Development of Semantic Segmentation |
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Honors and Awards

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| Nov. 2019 | 3rd Prize at Sangmyung Creative Convergence Integration Performance Contest 『SM AI Contest』 , Sangmyung University National Science Foundation Graduate Research Fellowship |
| Aug. 2021 | 1st Prize at 1st SW Educational Performance Convention 『SM AI Competition』 , Sangmyung University |
| Nov. 2021 | 2nd Prize at SW Education Performance Convention 『SM AI Competition』 , Sangmyung University |
| Dec. 2021 | SW Scholarship, Sangmyung University |

Skills

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| Programing | Python(Fluent), C(Fluent), bash, Linux, Java, LATEX Pytorch(Fluent), TensorFlow, Keras |
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| Languages | Korean, English, Japanese |
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