

Youngseo Kim

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

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Research Interests

Generative Model Multi-modal Fusion

Education

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

Research & Work Experience

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

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

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] *Under review "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

Projects

Sep. 2021-
Dec. 2021

PBL Project 1

A system that creates the model the casting director wants,
using face descriptions
Development of Multimodal Learning

Mar. 2021-
July. 2021

PBL Project 2

Semantic segmentation technology position of a recommendation service
Development of Semantic Segmentation

Honors and Awards

Nov. 2019

3rd Prize at Sangmyung Creative Convergence Integration Performance Contest
『SM AI Contest』, Sangmyung University

Aug. 2021

National Science Foundation Graduate Research Fellowship

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

Programing

Python(Fluent), C(Fluent), bash, Linux, Java, LATEX
Pytorch(Fluent), TensorFlow, Keras

Languages

Korean, English, Japanese