Youngmin Kim

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Research Interest ___

Computer Vision, Medical Image, Video Processing, Conversational Al

Education __

Yonsei University

M.S / Ph.D Course

2023.09 - Present

Major : Artificial IntelligenceAdvisor : Youngjae Yu

Incheon National University

Incheon, Korea 2016.03 - 2023.02

BS Undergraduate Degree

• Major: Economics and Computer Science (Double Major)

• Magna Cum Laude (Top 5.9%)

Publications _____

Scalp Diagnostic System With Label-Free Segmentation and Training-Free Image Translation **Youngmin Kim***, Saejin Kim*, Hoyeon Moon, Youngjae Yu, Junhyug Noh.

MICCAI 2025

Speaking Beyond Language: A Large-Scale Multimodal Dataset for Learning Nonverbal Cues from Video-Grounded Dialogues

ACL 2025, Main

Youngmin Kim, Jiwan Chung, Jisoo Kim, Sunghyun Lee, Sangkyu Lee, Junheok Kim, Cheoljong Yang, Youngjae Yu.

MAVL: A Multilingual Audio-Video Lyrics Dataset for Animated Song Translation Woohyun Cho, **Youngmin Kim**, Sunghyun Lee, Youngjae Yu.

ArXiv 2025

Preprocessing for Keypoint based Sign Language Translation without Glosses **Youngmin Kim** and Hyeongboo Baek.

Sensors 2023

A 2-Stage Model for Vehicle Class and Orientation Detection with Photo-Realistic Image Generation *IEEE BigData 2022* **Youngmin Kim***, Donghwa Kang* and Hyeongboo Baek.

A Study of Tram-Pedestrian Collision Prediction Method Using YOLOv5 and Motion Vector **Youngmin Kim**, Hyeonuk Ahn, Heegyun Jeon, Jinpyung Kim, Gyujin Jang, Hyeonchyeol Hwang.

KIPS 2021

Optical Flow Estimation Techniques and Recent Research Trends Survey **Youngmin Kim**, Hyeonuk Ahn, Jinpyung Kim.

KIPS Special Session

Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow **Youngmin Kim**, Gyujin Jang, Hyunjai Bae, YoungNam Kim, Jinpyung Kim.

KCC 2021, Best paper

Survivor Detection Model using Drones and Deep Learning

KCC 2021

Hyunjai Bae, Gyujin Jang, **Youngmin Kim**, YoungNam Kim, Jinpyung Kim.

Deep Learning based Multiple Damage Type Detection System for Bridge Structures YoungNam Kim, Hyunjai Bae, **Youngmin Kim**, Gyujin Jang, Jinpyung Kim.

KCC 2021

Stereo Image and Skeleton Information based Inter-Distance Estimation for Social Distancing

KCC 2021

Gyujin Jang, Hyunjai Bae, **Youngmin Kim**, YoungNam Kim, Jinpyung Kim.

Professional Experience _____

2023-2023 2021-2023 2020-2021	Undergraduate Research Assistant, MIR Lab., Yonsei University Undergraduate Research Assistant, RAISE Lab., Incheon National University Research Assistant, CVAI Lab., AICT	
Award	ds, & Scholarship	
2021	1st prize, AI-Hub Idea Challenge Competition	NIA
	1st prize, KCC 2021 Undergraduate Paper Competition	KIISE
	2nd prize , KED 2021 Industrial Innovation Big Data Platform Competition	KED
	Scholarship for Academic Excellence, 1st semester	INU
	Scholarship for Meritorious Service,	INU
2020	Scholarship for Academic Excellence, 1st semester	INU
Projec	cts	
NATION	ial or Enterprise	
2025. LC	Electronic , Multimodal Recommendation System.	
2024-25	. GS , Video-based Slump Prediction.	
2024. N 0	CSOFT, Multimodal Conversational Agent.	
2021. Bl	ackStone Belle-Forest, Smart Eco Service - Object Counting.	
2021. NI	A , Building AI training data for search and rescue using drones.	
	AIA, Development of high-performance and highly durable tires for light rail systenonitoring system.	ms and a safety-enhancing
2020. K l	RRI , Integrating algorithms to enable self-driving trams to operate in bi-directions.	
Teach	ing Experience	
2024	Introduction to Al Research, Teaching Assistant	Yonsei Univ
2024	Reinforcement Learning, Teaching Assistant	Yonsei Univ
2023	Basic of PyTorch, Teaching Assistant	Upstage
2023	Samsung AI Education, Teaching Assistant	Samsung
Extrac	curricular Activities	
2021-2022	BOAZ, 16th member of the Big Data Alliance Club, Big Data Analysis Part	Seoul
		0 1

Apparatus and Method for Analyzing data, Apparatus, and Method for Predicting Abnormality, Computer Program

Granted Patents _____

2020 **Public Big Data Youth Internship**, 2nd member, Government-funded program

1024803940000

Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle, Computer Science

1025873110000

Seoul

Method and Apparatus for Avoiding Collision between Vehicle and Object, Computer Science

1025334190000

Military Service_	

Korean Army, Ground Operations Command

2016.07 - 2019.03

ARMY SERGEANT, HONORABLE DISCHARGE