

Youngmin Kim

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Research Interest

- *Computer Vision, Medical Image, Video Processing, Conversational AI*

Education

Yonsei University

Seoul, Korea

INTEGRATED DEGREE

2023.09 - Present

- Major : Artificial Intelligence
- Advisor : Youngjae Yu

Incheon National University

Incheon, Korea

BS UNDERGRADUATE DEGREE

2016.03 - 2023.02

- Major : Economics and Computer Science (Double Major)
- Magna Cum Laude (Top 5.9%)

Publications

INTERNATIONAL JOURNAL

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

Sensors 2023

INTERNATIONAL CONFERENCE

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

IEEE BigData 2022

DOMESTIC JOURNAL

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

KIPS 2021

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

KIPS Special Session

DOMESTIC CONFERENCE

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

KCC 2021, Best paper

Survivor Detection Model using Drones and Deep Learning
Hyunjai Bae, Gyujin Jang, **Youngmin Kim**, YoungNam Kim and Jinpyung Kim.

KCC 2021

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

KCC 2021

Stereo Image and Skeleton Information based Inter-Distance Estimation for Social Distancing
Gyujin Jang, Hyunjai Bae, **Youngmin Kim**, YoungNam Kim and Jinpyung Kim.

KCC 2021

Professional Experience

2023-2023 **Undergraduate Research Assistant**, MIR Lab., Yonsei University

2021-2023 **Undergraduate Research Assistant**, RAISE Lab., Incheon National University

2020-2021 **Research Assistant**, CVAI Lab., AICT

Awards, & 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

Projects

NATIONAL OR ENTERPRISE

- 2021. **BlackStone Belle-Forest**, *Smart Eco Service - Object Counting*.
- 2021. **NIA**, *Building AI training data for search and rescue using drones*.
- 2020. **KAIA**, *Development of high-performance and highly durable tires for light rail systems and a safety-enhancing health monitoring system*.
- 2020. **KRRI**, *Integrating algorithms to enable self-driving trams to operate in bi-directions*.

Extracurricular Activities

2021-2022	BOAZ , 16th member of the Big Data Alliance Club, Big Data Analysis Part	Seoul
2020	Public Big Data Youth Internship , 2nd member, Government-funded program	Seoul

Granted Patents

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

1024803940000

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

1025873110000

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