

YOUNGMINKIM

<u>winston1214@naver.com</u>

J 010-8445-4623

Education

Bachelor of Science degree expected in Computer Science and Engineering

Incheon National University, Incheon

Bachelor of Arts degree expected in **Economics**

Incheon National University, Incheon

Mar 2016 - Present

Mar 2016 - Present

Internships

Advanced Institute of Convergence Technology

Computer Vision & Al Lab, Suwon

Sep 2020 - Aug 2021

- Computer Vision Algorithm Development using Pytorch, YOLOv5 Algorithm Tuning
- Analysis of Sensor Data
- UI Development using PyQt5

RAISE (Real-time Artificial Intelligence Systems Engineering) Lab

Dec 2021 - Present

Computer Science in INU, Incheon

 Research of Real Time Object Detection & Multi Object Tracking

Extracurricular activities

BOAZ 16th member and operating group member

Jan 2021 - Jan 2022

Bigdata Alliance Club, Seoul

- · Image Generation Paper Review& Application (GAN, CycleGAN)
- · Practice Data Analysis with Kaggle Competition
- Project to translate and generate sign language videos.

Public Big-Data Youth Internship(2nd)

Jul 2020 - Sep 2020

NIA, Seoul

- ·Conducted project regarding Standard Analysis Model using python, QGIS, R
- ·Conducted project Selection the Optimum Location of Cheongju Roundabout in South Korea

Personal details

Name

YOUNGMIN KIM

Email address

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Phone number

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Date of hirth

December 14th, 1997

Github O

github.com/winston1214

Tech Blog

bigdata-analyst.tistory.com

Skills

Pvthon

Pytorch

Ubuntu

Git

Nvidia mini PC

Certificates

ADsP

SQLD

Experience of Projects

Korean Sign-Language Translation BOAZ

Aug 2021 - Jun 2022

- Proposed a Sign-Language Translation model using Key-point based Seq2Seq Model
- Proposed a video frame augmentation method to increase the performance of the Sign-Language Translation Model

Smart Eco Service - Object Counting

Mar 2021 - Jun 2022

Black Stone BelleForest

- Object Detection using YOLOv5 and Object Tracking using DeepSort and Centroid Tracking Algorithm
- Applied Algorithm on Jetson Nano and linked management server

Al learning data for search video of survivors using drones

Feb 2021 - Apr 2021

NIIΛ

 Managing the building of survivor datasets Survivors Detection in 4K images using YOLOv5 Development of UI-Service

High-performance and high-durable tires for light rail and safety -enhancing health Developing monitoring technology

Nov 2020 - Dec 2021

KAIA

 Anomaly Detection & Impact Analysis in Tire Health Sensor Data

Integration of algorithms considering two-way driving of self-driving tram

Sep 2020 - Dec 2020

KRRI

- Development of Pedestrian Progress Direction Prediction and TTC prediction Algorithm using YOLOv5 and Optical Flow Inter

 working with algorithms and ROS
- · Development of GPS estimation technology for trams

Patents

- Apparatus and Method for Analyzing data, Apparatus, and Method for Predicting Abnormality, Computer program
- Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle,
 Computer program
- Method and Apparatus for Avoiding Collision between Vehicle and Object,
 Computer Program

| Paper | |
|--|------|
| YOLOv5와 모션벡터를 활용한 트램-보행자 충돌 예측 방법연구 KIPS, Published | 2021 |
| - 김영민 , 안현욱, 전희균, 김진평, 안현욱,황현철 | |
| 딥러닝과 Optical Flow를 활용한 보행자 사고 방지모델 KCC2021-Best Paper, Published - 김영민 , 장규진, 배현재, 김영남, 김진평 | 2021 |
| Optical Flow 추정 기술 및 최신 동향 KIPS Special Edition - 김영민 , 안현욱, 김진평 | 2021 |
| 딥러닝 기반 교량 구조물 다중 손상유형 탐지시스템 KCC2021, Published - 김영남, 장규진, 김영민 , 배현재, 김진평 | 2021 |
| 드론과 딥러닝을 활용한 조난자 탐지 모델 KCC2021, Published - 배현재, 김영민 , 김영남, 장규진, 김진평 | 2021 |
| 사회적 거리 두기를 위한 스테레오 영상과 스켈레톤 정보기반 객체 간 거리 추정 방법 KCC2021, Published - 장규진, 배현재, 김영민 , 김영남, 김진평 | 2021 |
| | |
| Contest | |
| AI HUB IDEA Challenge Competition Top Prize | 2021 |
| A Smart ATM model that can prevent voice phishing face-to-face fraud damage in ATMs | |
| Object detection was performed using YOLO, and facial expression recognition was performed using Efficient-Net | |
| KCC 2021 Undergraduate Paper Competition in Smart City Section Top Prize | 2021 |
| Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow (First Author) | |
| KED 2021 Industrial Innovation Big Data Platform Competition Excellent Prize | 2021 |
| Standard industry code classification (based BERT) | |