YOUNGMIN KIM

winston1214@naver.com 010-8445-4623

Education

Bachelor of Science degree expected in Computer Science and Engineering — Mar 2016 – Present
Incheon National School, Incheon

Bachelor of Arts degree expected in Economics — Mar 2016 – Present
Incheon National University, Incheon

Internships

Advanced Institute of Convergence Technology — Sep 2020 – Aug 2021
Computer Vision & AI Lab, Suwon

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

Extracurricular activities

BOAZ 16th member and operating group member — Jan 2021 – Present
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 BigDataYouth Internship(2nd) — Jul 2020 – Sep 2020
Seoul

· Conducted projectregarding Standard AnalysisModel using python, QGIS,R
· Conducted project Selection the Optimum Location of CheongjuRoundabout in South Korea

Personal details

Name
YOUNGMIN KIM

Email address
winston1214@naver.com

Phone number
010-8445-4623

Date of birth
December 14th, 1997

Github
github.com/winston1214

Tech Blog
bigdata-analyst.tistory.com

Skills

Python

Pytorch

Ubuntu

Git

Nvidia mini PC

Certificates

ADsP

SQLD

정보처리기능사

Experiments of projects

Smart Eco Service - Object Counting Mar 2021 - Apr 2021
Black Stone BelleForest

- Object Detection using YOLOv5 and Object Tracking using DeepSort and Centroid tracking Algorithm
- Mounting Algorithm to Jetson Nano and Inter-working management server(with rockwonIT)

AI learning data for search video of survivors using drones Feb 2021 - Apr 2021
NIA

- Managing the building of a survivors 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 Analysisin 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

Paper

YOLOv5와 모션벡터를 활용한 트램-보행자 충돌 예측 방법 연구 2021
KIPS, Accepted
김영민, 안현욱, 전희균, 김진평, 안현욱, 황현철

딥러닝과 Optical Flow를 활용한 보행자 사고 방지 모델 2021
KCC2021-Best Paper, Published
김영민, 장규진, 배현재, 김영남, 김진평

Optical Flow 추정 기술 및 최신 동향 2021
KIPS Special Edition
김영민, 안현욱, 김진평

딥러닝 기반 교량 구조물 다중 손상유형 탐지 시스템 2021
KCC2021, Published
김영남, 장규진, **김영민**, 배현재, 김진평

드론과 딥러닝을 활용한 조난자 탐지 모델 2021
KCC2021, Published
배현재, **김영민**, 김영남, 장규진, 김진평

사회적 거리 두기를 위한 스테레오 영상과 스켈레톤 정보기반 객체 간 거리 추정 방법 2021
KCC2021, Published
장규진, 배현재, **김영민**, 김영남, 김진평

Patents

- Apparatus and Method for Analyzing data, Apparatus and Method for Predicting Abnormality, Computer program *(10-2020-0186453)*
- Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle, Computer prog*ram*
- Method And Apparatusfor Avoiding Collision between Vehicle and Object, Computer Pro*gram*

Contest

KCC 2021 Undergraduate Paper Competition in Smart City Section — 2021

Top Prize

- Pedestrian Accident Prevention Model Using Deep Learning and Optical Flow(First Author)

KED 2021 Industrial Innovation Big Data Platform Competition — 2021

Excellence Prize

- Standard industry code classification(using BERT)