YoungMin Kim

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github: https://github.com/winston1214 technical blog: https://bigdata-analyst.tistory.com/

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EDUCATION

Incheon National University, Incheon, Korea

Mar. 2016 ~ Expected Feb. 2022.09

College of Information Science, Computer Science and Engineering

College of Law, Politics & Public Affairs, Economics

Relevant Coursework:

• Linear Algebra

• Data Science

• An Easy Statistics Theory

• Compiler Design

• Mobile Software

• The Application of Basic Statistics with R

• The Basics of Artificial Intelligence (KMOOC)

• Machine Learning (KMOOC)

• Artificial Intelligence and Deep Learning

• BigData

• Probability and Statistics

Discrete Mathematics

• Public BigData Youth Internship Education

Image Processing

Data Structure

RESEARCH INTERESTS

- Computer Vision (Image Generation and Object Detection)
- Artificial Intelligence
- Machine Learning & Deep Learning
- BigData Analysis

WORK EXPERIENCES

BOAZ 16th member and operating group member (Bigdata Alliance Club)

Seoul, Korea

Jan. 2021 - Jan. 2022

Sep. 2020 - Aug. 2021

June. 2020 - Sep. 2020

Member

• Image Generation Paper Review & Application(GAN, CycleGAN)

• Practice Data Analysis with Kaggle Competition

Advanced Institute of Convergence Technology; AICT(Computer Vision & AI Lab)

Suwon, Korea

Researcher

• Computer Vision Algorithm Development using Pytorch, YOLOv5 Algorithm Tuning

- Analysis of Sensor Data
- UI Development using PyQt5

2nd Public BigData Youth Internship

Seoul, Korea

Student

• Conducted project regarding Standard Analysis Model using python, QGIS, R

• Conducted project Selection the Optimum Location of Cheongju Roundabout in South Korea

EXPERIENCES OF PROJECTS

Smart Eco Service(People & Car Counting) (Client: Black Stone Belle Forest)

Mar. 2021 - Apr. 2021

- Object Counting using YOLOv5 and Object Tracking using DeepSort and Centroid tracking Algorithm
- Mounting Algorithm to Jetson Nano and Interworking management server(with rockwonit)

AI learning data for search video of survivors using drones (Management: NIA)

Feb. 2021 - Apr. 2021

- 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 (Management: KAIA)

• Anomaly Detection & Impact Analysis in Tire Health Sensor Data

Integration of algorithms considering two-way driving of self-driving tram (Client: KRRI)

Sep. 2020 - Dec. 2020

Nov. 2020 - Dec. 2020

- Development of Pedestrian Progress Direction Prediction and TTC Prediction Algorithm using YOLOv5 and Optical Flow
- Interworking with algorithms and ROS
- Development of GPS estimation technology for trams

PAPER

• 딥러닝과 Optical Flow 를 활용한 보행자 사고 방지 모델

김영민, 장규진, 배현재, 김영남, 김진평

한국정보과학회(KCC2021) Accepted

• 딥러닝 객체 탐지와 모션벡터를 활용한 트램 충돌 방지 모델

김영민, 안현욱, 장규진, 김진평

한국정보처리학회(KIPS) decision in process

• 딥러닝 기반 교량 구조물 다중 손상유형 탐지 시스템

김영남, 장규진, **김영민**, 배현재, 김진평

한국정보과학회(KCC2021) Accepted

• 드론과 딥러닝을 활용한 조난자 탐지 모델

배현재,김영민,김영남,장규진,김진평

한국정보과학회(KCC2021) Accepted

• 사회적 거리 두기를 위한 스테레오 영상과 스켈레톤 정보기반 객체 간 거리 추정 방법

장규진, 배현재, 김영민, 김영남, 김진평

한국정보과학회(KCC2021) Accepted

Patents

- · Apparatus and Method for Analyzing data, Apparatus and Method for Predicting Abnormality, Computer program (10-2020-0186453) Patent Share 10%
- Electronic Apparatus and Method for Searching Distress, Unnamed Aerial Vehicle, Computer program (Expected to apply) Patent Share 10%
- Method And Apparatus for Avoiding Collision between Vehicle and Object, Computer Program (Expected to apply) Patent Share 10%

SKILLS & Certificate

Skills

Python, Pytorch, Ubuntu, Nvidia MiniPC(Basic), ROS(Basic), R(Basic)

ADsP, SQLD, 정보처리기능사 Certificate