



Sanghyun Park

AUTONOMOUS DRIVING SYSTEM · PERCEPTION · SLAM

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"Can't get anything without trying"

Summary

This is Sanghyun Park, who wants to become an 0.1% of autonomous driving engineer. I'm interested in Autonomous driving system of mobile robot and vehicle, Perception and SLAM. I think the more research on these technologies develops, the more convenient human life becomes. Therefore, I would like to contribute to this research.

Research Interests

Robotics Visual SLAM, Mobile Robot
Perception Moving Object Detection, Camera & LiDAR Sensor Fusion

Education

KwagnWoon University

B.S. IN SCHOOL OF ROBOTICS

Seoul, S.Korea

Mar. 2020 - Feb. 2024(Expected)

- **Current GPA** : 4.09/4.5, **Current Major GPA** : 4.10/4.5
- **Club** : Baram (Robotics Academic Group) - [2022 Staff]

Work Experience

Robotics & A.I. LAB @KwangWoon University

UNDERGRADUATE LAB INTERN (ADVISOR : PROF.JUNGHYUN OH)

Seoul, S.Korea

December. 2021 - Present

- Research on Visual SLAM and Computer Vision
- Studying Visual SLAM for Dynamic Environment

Skills

Programming C++/C, Python, Matlab
DevOps ROS, Git, Docker
Frameworks Pytorch
Language Korean, English

Extracurricular Activity

Basic Autonomous driving software

C++, ROS, DEEPLARNING

Baram(Robotics Academic Group)

August.2021 - November.2021

- I trained Yolov3 model for Object detection
- It was implemented to make real-time judgment by receiving the type and coordinate value of the object recognized in Yolov3 through ROS
- This project is in my Github repository : **Basic_Autonomous-Driving-Software** [Link]

Visual Odometry with image preprocessing

VISUAL ODOMETRY, IMAGE PREPROCESSING, PYTHON

Robotics & A.I. LAB (KW Univ.)

February.2022 - February.2022

- I implemented visual odometry based on ORB features as Python
- Image preprocessing using OpenCV
- Visual Odometry improved when applying Gaussian filter : **Result**[Link]

3D Objection Detection Projection

OPENPCDET, NUMPY, ROS

Baram(Robotics Academic Group)

March.2022 - July.2022

- I used PointRCNN pretrained model
- Projection 3D point cloud (matching Camera Frame) using Numpy
- This project is in my Github repository : **3D-Object-Detection_to_2D_Projection** [Link]

Console game

Individual

C++

May.2021 - August.2021

- I made Console game using C++
- After learning C++, I wanted to start to program for applying object orientation.
- This project is in my Github repository : **Console_game-avoid_object** [\[Link\]](#)