SeokWon **Choi**

Robotics · SLAM · Computer Vision

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"Widely beneficial to the world."

Introduction

This is SeokWon Choi who want to create new and useful things. I am interested in Robotics, SLAM and Computer Vision. Because it will make helpful things for people. Hope that one day what I have created will be helpful to many people in the world.

Education

KwangWoon University — *Seoul, S.Korea*

B.S. in School of Robotics — *Mar. 2017 - Feb. 2023(Expected)*

- Current GPA : 4.38/4.50, Current Major GPA : 4.50/4.50
- Club : BARAM(Robotics Academic Group)

Work Experience

Robotics A.I. Lab @KwangWoon Univ — *Seoul, S.Korea*

Undergraduate Lab Intern — *Mar. 2021 - Dec. 2021*

- Research on SLAM, Path Planning, Multi-Robot.
- Participated in the Multi-Robot automatic driving project.

Urban Robotics Lab @KAIST — *Daejeon, S.Korea*

Undergraduate Lab Intern — *Jan. 2022 - Sep. 2022*

- Research on Multi-Robot SLAM
- Participated in the Unmanned Swarm CPS project.

Publication

2021.10 **CICS21**, Seokwon Choi, Seokjun Moon, Junghyun Oh,"Searching Window Approach to Multi-robot Collision Avoidance"-[Paper] — *CICS*

Honors & Awards

Awards

2020.11 **Dean's List**, for Academic Excellence — *KwangWoon Univ.*
2021.10 **Dean's List**, for Academic Excellence — *KwangWoon Univ.*
2022.10 **Dean's List**, for Academic Excellence — *KwangWoon Univ.*

Honors

2020-2 **Full tuition Scholarship**, for Top seat last semester — *KwangWoon Univ.*
2021-2 **Half tuition Scholarship**, for 2nd seat last semester — *KwangWoon Univ.*
2022-1 **Half tuition Scholarship**, for 3rd seat last semester — *KwangWoon Univ.*
2022-2 **Full tuition Scholarship**, for Top seat last semester — *KwangWoon Univ.*

Skills

Programming C++/C, Python, JAVA, Matlab
DevOps ROS, ROS2
Framework Pytorch, TensorFlow
Languages Korean(native), English(TEPS:336)

Projects

Universal Mobile Robot

Capstone(KwangWoon Univ.)

Camera, LiDAR, ROS

Mar. 2022 - Jun. 2022

- We made modular service mobile robot.
- A new service is provided by changing the module.
- Through this project, I learned about teamwork, ROS, camera, LiDAR

Implementation of Visual Odometry

Individual(Club BARAM)

Visual Odometry, ROS

Sep. 2021 - Nov. 2021

- I thought that visual SLAM was an indispensable technology for mobile robots, so I implemented it.
- Through this project, I learned about Computer Vision, SLAM, and ROS.

Multi-Robot automatic driving

Robotics A.I. lab(KwangWoon Univ.)

SLAM, ROS

Apr. 2021 - Sep. 2021

- It aims to automatic drive multiple mobile robots on ROS.
- I was in charge of applying mapping, localization, and navigation.
- Through this project, I dealt with ROS and SLAM.

DeepLearning Basics with Pytorch

Individual

DeepLearning, Pytorch

Jan. 2021 - Mar. 2021

- I have covered the basics of deep learning with the PyTorch framework.

Parking Lot Map Application

Team Project(Club BARAM)

Android, JAVA

Aug. 2020 - Dec. 2020

- We have created an application that informs the location and fee of the parking lot.
- As a team leader, I was in charge of overall Android coding.
- Through this project, I learned how to collaborate code and how to use JAVA.