



Taeyoung Kim

AUTONOMOUS DRIVING · ROBOTICS SW ENGINEER

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"Nothing ventured, nothing gained."

Summary

This is Taeyoung Kim, who wants to become an autonomous driving or robotics SW engineer. My research interests are Computer Vision and Sensor Fusion. I like to take on challenging tasks and I like to grow up with my colleagues around me. That's why I record and share what I did on my Github or Technical Blog. I would like to participate in changing the world with advanced science and technology.

Research Interests

- Computer Vision** Object Detection, Segmentation, Depth Estimation
- Sensor Fusion** Combination of camera, lidar, and radar

Education

Kwang Woon University

Seoul, S.Korea

B.S. IN SCHOOL OF ROBOTICS

Mar. 2016 - Feb. 2022 (Expected)

- **Current GPA** : 4.07 / 4.50, **Current Major GPA** : 4.50 / 4.50
- **Club**: BARAM (Robotics Academic Group) - [2020 Staff] , DAISY (English Conversation Club) - [2019 Spring President]

Work Experience

KIST(Korea Institute of Science and Technology)

Seoul, S.Korea

STUDENT INTERN (ADVISOR : DR. KANGGEON KIM)

Sep. 2020 - Present

- Research on Monocular Depth Estimation
- Participated in KIST disinfect robot (AI Disinfection Robot) project

Image Process System Lab @Kwang Woon Univ

Seoul, S.Korea

UNDERGRADUATE LAB INTERN (ADVISOR : PROF. DONGGYU SIM)

Mar. 2020 - Aug. 2020

- Research on Image Processing based on Deep learning
- Participated in seminars related to Deep Learning and Image Processing

Honors & Awards

AWARDS

- 2020.11 **Dean's List**, for Academic Excellence KwangWoon Univ.
- 2020.9 **5th Place on B-track**, Korea Health Datathon 2020 NAVER CLOUD PLATFORM
- 2019.10 **Dean's List**, for Academic Excellence KwangWoon Univ.

HONORS

- 2020 **National Science and Engineering Undergraduate Scholarship**, for the students with excellent grades, those who have been recommended by the university Korea Student Aid Foundation
- 2019-2 **Full tuition Scholarship**, for Top seat last semester KwangWoon Univ.

Skills

- Programming** C++/C, Python, JAVA, Matlab
- Framework** Pytorch, Tensorflow, Keras
- DevOps** Git, Docker, ROS
- Languages** Korean, English

Extracurricular Activity

Technical Blogs

Github blog

WRITERS

May. 2020 - Present

- Writing some posts about lecture summary, paper review, some tips for developments.
- To share what I have studied with others and to remember it longer.

Monocular Depth Estimation with ORB-SLAM2

BARAM (Robotics Academic Group)

PERSONAL TOY PROJECT

Sep. 2020 - Nov. 2020

- I was curious about the performance of the recent depth estimation model.
- I used '**Monocular Depth Estimation with Transfer Learning pretrained MobileNetV2**' model and applied to ORB-SLAM2 also compared with ORB-SLAM2(Monocular mode), ORB-SLAM2(RGB-D mode)
- The source code related to this toy project is on my [Github repository].

KCCV 2020

Korea computer vision society

PARTICIPANT

Aug. 2020

- Participated to know about the trend of Computer Vision

Using deep learning for data analysis and image processing (Basic)

Korea open source software

STUDENTS

Jul. 2020

- Studied lectures which is related to the using Deep learning framework(Keras)

Runner Alarm System based on Deep Learning

BARAM (Robotics Academic Group)

PERSONAL TOY PROJECT

Apr. 2020 - Jun. 2020

- I wanted to distinguish between walking children and running children with an object detection model.
- When children are running for an amount of time, a beep sounds.
- The source code related to this toy project is on my [Github repository].

Publication

DOMESTIC CONFERENCE

2020.9 **KSPC2020**, Naseong Kwon, Taeyoung Kim, Subin Kim, Joohyung Byeon, Jongsuk Lee, Donggyu Sim,
"Luma Mapping with Chroma Scaling based on CNN feature map for VVC subjective quality improvement"

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