Jaesung Han

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Education

Kyungpook National University (Daegu, Korea) Mar. 2020 – Present
Bachelor Student, School of Computer Science and Engineering *GPA: 4.23/4.3*
The University of Suwon (Hwaseong, Korea) Mar. 2018 – Feb. 2020
Department of Information and Communication Engineering *GPA: 4.3/4.5*

Research interests

Artificial Intelligence, Computer Vision, Human-Computer Interaction

Publications(Domestic)

Jaesung Han, Minwook Kim, Yongjin An, Jinho Han, Jaesoo Kim, Minhee Kim, "**SeeHealth**: YOLO transfer learning-based self-examination kit result confirmation IoT device for visually impaired", JDCS, Jun. 2023

Projects

Human Following Robots | *Cuda, Jetson Orin Nano, Zed camera, Python, YOLO-v8, Vscode* Jul. 2023 – Aug. 2023

- Developed this project during my time as a research intern at ETRI Robot IT Convergence.
- The robot uses a ZED camera to capture images and depth maps. It performs person detection using YOLO-V8 and obtains the real-world coordinates of a specific individual, then follows that person.

SeeHealth | *Raspberry Pi, 3D Printing, Google Cloud API, Python, Git, Bash Shell, YOLO-v8* Mar. 2023 – Jun. 2023

- developed an IoT device that provides voice guidance on COVID-19 self-examination kit results for visually impaired.
- carried out the project as a team leader in the Capstone Design class at Kyungpook National University.
- When a visually impaired person places an self-examination kit on a device, the device takes a picture, reads the result, and outputs it as a voice.

Honors and Awards

Bronze Prize, undergraduate thesis award, Journal of Digital Contents Society(JDCS) Jul. 2023

Scholarship for Academic Excellence, Kyungpook National University 2020 – 2023

Scholarship for Academic Excellence, The University of Suwon 2018 – 2019

Skills

Programming: C/C++, Java, Python, cmake, Bash, GLSL, Keras, LaTeX
Tools: Git, Linux/Unix Systems, Vim, VS Code, Eclipse

Experience

Robot IT Convergence, ETRI | *Research Intern* Jul. 2023 – Aug. 2023
Served as an assistant to train lightweight object detection models for Human Following robot.

System Programming class, KNU | *Teaching assistant* Mar. 2023 – Jun. 2023
Taught students how to write programs at the Linux system call level.

Language Skills

TEPS | 331
High Intermediate Level of English Proficiency (Level 2)