Youngjoon Jang

PhD Student, Division of Future Vehicle, KAIST.

Email : jyj@mmai.io
Webpage: https://Art-Jang.github.io

Research Interest

My research aims to effectively train deep neural networks with multi-modality (vision, audio and text). Also, I have an interest in techniques related to sign language for helping deaf people.

Education

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Ph.D. in Division of Future Vehicle; Advisor: Joon Son Chung — Sep. 2022 – Present

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
M.S. in Division of Future Vehicle; Advisor: In So Kweon — Mar. 2020 – Feb. 2022

- Thesis: Learning Methodology According to Characteristics of Continuous Sign Language Recognition Dataset

Kwangwoon University — Seoul, South Korea
B.S. in Division of Robotics; GPA: 4.3/4.5 — Mar. 2014 – Feb. 2020

Work Experience

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea
Researcher, Multimodal AI Lab. — Mar. 2022 - Aug. 2022

Publication

International Conferences

- Self-Sufficient Framework for Continuous Sign Language Recognition.
  Youngjoon Jang*, Youngtaek Oh, Jae Won Cho, Myungchul Kim, Dong-Jin Kim, In So Kweon, Joon Son Chung*
  - International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
- Metric Learning for User-Defined Keyword Spotting.
  Jaemin Jung, Youkyum Kim*, Jihwan Park, Youshin Lim, Byeong-Yeol Kim,* ***Youngjoon Jang****, Joon Son Chung*
  - International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023.
- Signing Outside the Studio: Benchmarking Background Robustness for Continuous Sign Language Recognition.
  Youngjoon Jang*, Youngtaek Oh, Jae Won Cho, Dong-Jin Kim, Joon Son Chung, In So Kweon*
  - British Machine Vision Conference (BMVC), 2022.
- KSL-Guide: A Large-scale Korean Sign Language Dataset Including Interrogative Sentences for Guiding the Deaf and Hard-of-Hearing.
  Soomin Ham, Kibaek Park, ***Youngjoon Jang****, Youngtaek Oh, Seokmin Yun, Sukwon Yoon, Chang Jo Kim, Han-Mu Park, In So Kweon*
  - International Conference on Automatic Face and Gesture Recognition (FG), 2021.

Awards & Honors

International Competitions

- *1st Place*, R-BIZ Challenge TURTLEBOT3 AUTORACE (ROBOTIS), Nov. 2018
- *5th Place*, Sumo Robot, International Robot Contest (IRC), Oct. 2018
- *3rd Place*, R-BIZ Challenge TURTLEBOT3 AUTORACE (ROBOTIS), Sep. 2017
- *5th Place*, RoboCup Iran Open Rescue, Apr. 2017

National Competitions

- *2nd Place*, Science and Technology Specialized University Startup Competition (GIST), Nov. 2021
- *2nd Place*, App Startup Support Program Contest (KAIST), Apr. 2021
- *1st Place*, RoboCup Korea Open Rescue, Feb. 2017

Academic Service

Conference Reviewer

∗ European Conference on Computer Vision (ECCV): 2022 (2 papers)

Teaching

Teaching Assistance (TA) at FV, KAIST
* PD513: Future Vehicle Capstone Design (Fall, 2022)
* PD806: Automobile Special Topics in Mechanical Engineering (Fall, 2021)

Technical Skills

Programming: C, C++, Python, Pytorch