

Jaemin Lee

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EDUCATION

- **Hanbat National University (Advisor: Prof. Dong-Geol Choi)** Daejeon, Korea
MS in Department of Information and Communication Engineering
Mar. 2020 – Feb 2022
Courses: Computer Vision, Deep Learning, Semantic Segmentation, Continual Learning
- **Hanbat National University** Daejeon, Korea
BS in Department of Information and Communication Engineering
Mar. 2015 – Feb 2019

SKILLS SUMMARY

- **Languages:** C, C++, Java, PHP, Python, Javascript, Typescript, Shell Script
- **Frameworks:** Express, React, Vue, jQuery, Angular, Spring, AWT, Pytorch, TensorFlow
- **Tools:** Git, Docker, Redis, PM2
- **Database:** MySQL, MongoDB, MariaDB, RDB
- **Platforms:** Linux, Web, Windows, AWS

RESEARCH INTEREST

- Machine learning for domain generalization such as Domain Adaptation(DA), Semi-Supervised Learning(SSL), and Active Learning(AL).
- Low-level computer vision tasks such as Semantic Segmentation, Depth Completion, and Stereo Matching.

PUBLICATIONS

- **Conference: Towards the Human Global Context: Does the Vision-Language Model Really Judge Like a Human Being?:** 2022, COLING 2022 (under review)
- **Journal[IF:2.397]: Exploiting Features with Split-and-Share Module:** 2022, MDPI Electronics
- **Journal[IF:3.741]: A Self-Supervised Sampler for Efficient Action Recognition: Real-World Applications in Surveillance Systems:** 2021, IEEE RA-L and ICRA 2022
- **Journal[IF:3.367]: Sequential Feature Filtering Classifier:** 2021, IEEE ACCESS
- **Journal[KCI]: Road semantic segmentation systems in outdoor environments for robot driving Classifier:** 2021, The Journal of Korean Institute of Next Generation Computing
- **Journal[KCI]: Domain adaptation method based on semi-supervised learning using cross-domain mixed sampling technique:** 2021, The Journal of Korean Institute of Next Generation Computing
- **Journal[SCOPUS]: Development of OCR-based Applications to Improve Inventory Management:** TEST(SCOPUS) 2019

PROJECTS

- **Study on the road surface recognition based on deep learning using multiple sensors.** ADD
Researcher Dec 2018 - Sep 2021
 - **Aim:** Development of Road Surface Recognition Techniques Using Multiple Sensors
 - **Research:** Semantic Segmentation, Video Propagation, Semi-supervised Learning
- **Development of Learning-Based Driving Area Recognition Methodology.** Hyundai Rotem
Researcher Jul 2020 - Dec 2021
 - **Aim:** Development of Road Surface Recognition Techniques Using Multiple Sensors
 - **Research:** Semantic Segmentation, TensorRT, Semi-supervised Learning
- **Research on Abnormal Behavior Recognition and Tracking in CCTV Environment.** NIA
Researcher May 2021 - Dec 2021
 - **Aim:** A Study on the Recognition and Tracking of Abnormal Behavior in CCTV Images
 - **Research:** Object Detection, Tracking, Anomaly Detection
- **Detailed Identification Technique for Offshore Vessels and Structures.** ETRI
Researcher Jun 2019 - Nov 2019
 - **Aim:** Development of recognition techniques for offshore vessels and structures and detailed compositional parts
 - **Research:** Part Segmentation
- **Research service on the preparation method of reproduction data.** KOSTAT
Researcher Jun 2021 - Nov 2021
 - **Aim:** Research service on the preparation method of reproduction data of data provided by the National Statistical Office
 - **Research:** Data generation, GAN
- **Web-based IDE** J911/codeveloper
Main Developer Apr 2018 - May 2018
 - **Backend:** Node Js, Express, Js, Mysql, Socket.io, Docker
 - **Front-end:** Vue Js, Webpack3, CodeMirror, FontAswome, Axios, Vuex

EXPERIENCE

- **Tesworks Inc.** Seoul
Researcher *Dec 2021 -*
 - **Mission:** Computer vision, Domain Adaptation, Object Detection and Tracking
- **Techand Inc.** Daejeon
Web Developer *Jun 2018 - Feb 2019*
 - **Mission:** Real-time home IoT control interface using MQTT
 - **Stack:** REST API, MQTT, Typescript, PostgreSQL
- **DAREUNKOREA Inc.** Daejeon
Main Developer *Jan 2016 - Feb 2018*
 - **Mission:** Web based Realtime Communication Service
 - **Stack:** Node Js, MariaDB, Redis, websocket, Nginx, AWS

HONORS AND AWARDS

- University Student Autonomous Driving Contest - KASE 2019 (9th)
- Capstone Design Project, HBNU 2019, (overall 1st prize)