Kwonyoung Kim

Joint M.S & Ph.D. student · Yonsei University
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Research Interests

Parameter-Efficient Fine-Tuning, Token Reduction, Multi-modal Learning, Stereo Depth Estimation, Meta-learning, Video Understanding, Domain Adaptation

Education

Yonsei University — *Seoul, S.Korea*
Joint M.S & Ph.D. Candidate, Electrical and Electronic Engineering — *Mar. 2020 - Present*
- Supervisor: Prof. Kwanghoon Sohn
- Overall GPA: 4.1/4.3

Yonsei University — *Seoul, S.Korea*
B.S. in Electrical and Electronic Engineering — *Mar. 2012 - Jan. 2020*
- Major: Electrical and Electronic Engineering
- Overall GPA: 3.39/4.3

Publications

"Faster Parmaeter-Efficient Tuning with Token Redundancy Reduction"
First Author — *Jun. 2025*
- Computer Vision and Pattern Recognition Conference (CVPR 2025).

"PointFix: Learning to Fix Domain Bias for Robust Online Stereo Adaptation"
First Author — *Oct. 2022*
- European Conference on Computer Vision (ECCV 2022).

"Improving Visual Recognition with Hyperbolical Visual Hierarchy Mapping"
Co-Author — *Jun. 2024*
- Computer Vision and Pattern Recognition Conference (CVPR 2024).

"TemporalMaxer: Maximize Temporal Context with only Max Pooling for Temporal Action Localization"
Co-Author — *Mar. 2023*
- Arxiv preprint (2023).

"SimOn: A Simple Framework for Online Temporal Action Localization"
Co-Author — *Nov. 2022*
- Arxiv preprint (2022).

Patent

Method and Device for Robust Depth Estimation to Domain Shift
Kwonyoung Kim, Kwanghoon Sohn — *Dec. 2021*
- Korea Patent, 10-2021-0177205

Project Experiences

To create AI systems that act appropriately and effectively in novel situations that occur in open worlds — *Seoul, S.Korea*
Institute for Information & Communications Technology Promotion (IITP), Korea — *Apr. 2020 - Dec. 2021*
- Developed an algorithm for Online Stereo Adaptation
- Data acquisition with delivery robot and pre-processing

Development of Multi-modal Data Fusion and Artificial Social Intelligence for Comprehensive Scene Understanding and Forecasting

Seoul, S.Korea

National Research Foundation of Korea (NRF) grant funded by the Korea government

Mar. 2021 - Feb. 2025

- Research for multi-modal data fusion

Teaching Assistants

Seoul, S.Korea

Dept. of Electrical and Electronic Engineering, Yonsei University

- Electrical and Electronic Engineering Capstone Design, Fall, 2022
- Signals and System, Fall, 2021
- Lab. Internship assistant, Summer, 2021
- Signals and System, Fall, 2020

Skills

Programming Python, MATLAB, C/C++
Deep learning Pytorch, Tensorflow
Languages Korean, English

Work Experience

Neurocle Inc.

Seoul, S.Korea

Software Engineer Intern

Jun. 2019 - Jan. 2020

- Implemented Class Activation Map function for users and improved performance of the product.