

Interests_

Model Compression, Deep Learning, and Machine Learning

Education

Sungkyunkwan University

M.S. IN DEPARTMENT OF ARTIFICIAL INTELLIGENCE

Suwon, S.Korea 2020.03 - Current

Konkuk University

Seoul, S.Korea

B.S./M.S. IN ORGANIC AND NANO SYSTEM ENGINEERING

2011.03 - 2019.02

Publication

Conference

UNDER REVIEW

• [U1] "Accelerating CNN via Dynamic Pattern-based Pruning Network" Gwanghan Lee, Saebyeol Shin, and Simon S. Woo. International Conference on Information and Knowledge Management (CIKM) 2022.

INTERNATIONAL CONFERENCE

- [C2] "EMGNet:Efficient Multi-Scale Feature Generation Adaptive Network" Gwanghan Lee, Minha Kim, Minha Kim, and Simon S. Woo. International Conference on Information and Knowledge Management (CIKM) 2021. (BK Computer Science IF=3, Acceptance Rate: 21.7%)
- [C1] "Exploring Group Sparsity using Dynamic Sparse Training" Geunhye Jo, Gwanghan Lee, and Dongkun Shin. IEEE International Conference on Consumer Electronics Asia (ICCE-Asia) 2020

DOMESTIC CONFERENCE

- [C2] "Efficient Multi-Scale Feature Generation Network" Gwanghan Lee, Saebyeol Shin, and Simon S. Woo. Korea Computer Congress (KCC), 2022
- [C1] "Gradual Group-level Pruning with Dynamic Sparse Training" Gwanghan Lee, and Dongkun Shin. Korea Computer Congress (KCC), 2020

project_

Research on Object Detection in Aerial Images

HANHWA

2022.05 - Current

Modeling

Contributed to the development of rotated object detection network

Research on solving mathematical problems using natural language processing technology

IITP

RESEARCH ON MODEL COMPRESSION

2021.07 - 2022.12

• Contributed to the development of efficient transformer network. (knowledge distillation)

Software Framework for Intelligent IoT Devices

IITP, SW starlab

RESEARCH ON MODEL COMPRESSION

2020.03 - 2021.01

· Contributed to the development of efficient network. (pruning, knowledge distillation, optimization)

Internship _____

GWANGHAN LEE · RÉSUMÉ 2022년 7월 15일

SKT AI Fellowship

Modeling & Application

• Research and develop deep learning model to colorize past historical images.

Honor & Awards

INTERNATIONAL

2022	Gold medal (9th/828), BirdCLEF 2022	Kaggle
2022	Silver medal (21st/1565), UW-Madison GI Tract Image Segmentation	Kaggle
2021	Silver medal (41st/874), Bristol-Myers Squibb – Molecular Translation	Kaggle

DOMESTIC

2021	1st Place, Camera Image Quality Improvement AI Competition	LG AI Research
2021	1st Place, SKT CCTV Security Video Image Object Detection	SKT
2021	1st Place , 2021 Pangyo Al Challenge	AICONNECT
2021	1st Place , News topic classification using KLUE data	DACON
2021	2nd Place, Electrical energy quality classification AI Contest	NIPA
2021	2nd Place, Ego-Vision Hand Gesture Recognition Al Competition	NIA/DACON
2021	Awards (KRW 273M in support), 2021 AI Grand Challenge 5th	IITP
2020	3rd Place , Collider detection AI contest using vibration data	KAERI/DACON
2020	2nd Place, Bio-Optical Data Analysis AI Contest	AI i-CON/DACON
2020	3rd Place , AI Challenge for temperature estimation using public data	KIMM/DACON
2019	2nd Place, Jeju BigData Competition	JTP/DACON
2019	3rd Place (leaderboard 5th), Kakao brunch article recommendation competition	KAKAO

SCHOLARSHIP

2021	Best Paper Scholarship, Sungkyunkwan University	SKKU
2021	Academic Excellence Scholarship, Sungkyunkwan University	SKKU

Teaching

Undergraduate Research Program

Suwon, S.Korea

2022.06 - Current

DEEPLEARNING PROJECT MENTOR

2021.03 - 2021.12

- Lecture on the entire pipeline from image pre-processing, modeling, and post-processing.
- A Guide to Deepfake Detection Research.
- A Guide to Efficient Deepfake Detection Research.

Skills_____

Programming

Python

Deeplearning Framework

Pytorch