

Jin Kim

PH.D CANDIDAATE · YONSEI UNIVERSITY

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Summary

Research Interest: Computer vision, machine learning, effective computing

Current Focus: Vision-Language model, Domain Generalization, Meta-Learning, Memory Network, Semantic Segmentation

Education

Yonsei University

Seoul, S.Korea

PH.D. CANDIDATE IN SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

Mar. 2020 - Present

- Supervised by Prof. Kwanghoon Sohn.

Yonsei University

Seoul, S.Korea

B.S. IN SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

Mar. 2013 - Feb. 2020

- Full Scholarship by National S&T(Science & Technology)
- GPA : 3.91 / 4.5, Major course average : 4.2 / 4.5

Work Experience

Seoul Metropolitan Police Agency, Korea

Seoul, S.Korea

CYBERCRIME INVESTIGATION UNIT

Feb. 2015 - Dec. 2016

- Investigator as secondment of military service
- I was responsible for the development of automation required for the cyber criminals investigation such as illegal pornography sites with overseas servers(Link1), hacking(Link2), and making illegal personal information acquisition(Link3,Link4)

Publication

International Conference

“Pin the memory: Learning to Generalize Semantic Segmentation”, CVPR’22

paper, code

JIN KIM, JIYOUNG LEE, JUNGIN PARK, DONGBO MIN, AND KWANGHOON SOHN

June. 2022

- IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR)

“Self-balanced Learning for Domain Generalization”, ICIP’21

paper, code

JIN KIM, JIYOUNG LEE, JUNGIN PARK, DONGBO MIN, AND KWANGHOON SOHN

Sep. 2021

- IEEE International Conference on Image Processing (ICIP)

Patent

“Semantic image segmentation apparatus and method using memory”, (메모리를 이용하는 의미론적 영상 분할 장치 및 방법)

JIN KIM AND KWANGHOON SOHN

Dec. 2021

- Korean patent, 10-2021-0179588

Research Experience

Development of Complex Situational Awareness and Prediction Technology through Multi-modal Data Fusion and Social Artificial Intelligence

Seoul, S.Korea

FUNDED BY MINISTRY OF SCIENCE, MID-LEVEL RESEARCH.

Mar. 2021 - Present

- Developed an algorithm for computer vision with multi-modal data.

Development of AI systems that robustly and properly perform in novel environment that occur in open worlds

Seoul, S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY, SOUTH KOREA

Mar. 2020 - Feb. 2022

- Developed algorithms for autonomous delivery robot that can robustly perform computer vision tasks in out-of-distribution situation.
- Developed an algorithms for domain generalization using meta-learning.

Development of ship detection model in satellite image domain.

Seoul, S.Korea

SHIP DETECTION CHALLENGE HOSTED BY AGENCY FOR DEFENSE DEVELOPMENT OF SOUTH KOREA(LINK1) & DACON (LINK2)

July. 2019 - Apr. 2020

- Idea planning, code development and network tuning for this challenge.
- Github repository : [Code](#)

Development of building segmentation model in aerial image domain.

Seoul, S.Korea

YONSEI UNIVERSITY, DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING

Mar. 2019 - July. 2019

- Developed building segmentation model can robust perform in aerial image domain.

Teaching Assistant.

Seoul, S.Korea

YONSEI UNIVERSITY, DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING

July. 2020 - Dec. 2021

- Digital signal processing, Electrical and electronic engineering experiments: fundamentals., Capstone Design

Honors & Awards

2020 - Present	Early Admission Scholarship , by Dept. of Electrical and electronic engineering	Yonsei University, S. Korea
2020	4th place / 383 entries , DACON Ship Detection Challenge	Agency for Defense Development, S. Korea
2017, 2018	Academic Excellence Honor , by Dept. of Electrical and electronic engineering	Yonsei University, S. Korea
2013 - 2020	Full scholarship for 4 years , by National Science & Technology	Korea Student Aid Foundation
2016	Seoul Metropolitan Police Agency Award Certificate , by Commissioner General	Korean National Police Agency

Skills

Programming	Python, C/C++, JAVA, bash scripts, Matlab, VBA
Deep Learning	Pytorch, Tensorflow, Caffe
Web	Javascript, CSS, HTML5, Php

Extracurricular Activity

YFORM(Yonsei Forum Of Risk Management in Yonsei University LINK)

Seoul, S.Korea

MEMBER

Mar. 2017 - Mar. 2018

- Gained expertise in probabilistic model of finance(ex. BSM formula) & risk management techniques.