DONGKEUN KIM

kdk1563@postech.ac.kr | dk-kim.github.io | Github | Pohang, South Korea

RESEARCH INTERESTS

Computer Vision, Machine Learning, Video Understanding, Group Activity Understanding

EDUCATION

Pohang University of Science and Technology (POSTECH) Feb. 2019 ∼ current
Ph.D. in Computer Science and Engineering
Advisor: Suha Kwak
GPA: 4.0 / 4.3

Carnegie Mellon University (CMU) Aug. 2019 ∼ Feb. 2020
Visiting student in Language Technologies Institute
IITP (Institute of Information & Communications Technology Planning & Evaluation) Executive Education Program

Korea Advanced Institute of Science and Technology (KAIST) Mar. 2013 ∼ Feb. 2015
M.S. in Industrial & Systems Engineering
Advisor: Kyung Chul Chae
GPA: 3.74 / 4.3

Korea Advanced Institute of Science and Technology (KAIST) Feb. 2008 ∼ Feb. 2013
B.S. in Biological Science
B.S. in Industrial & Systems Engineering
GPA: 3.64 / 4.3
Magna Cum Laude

PUBLICATIONS

International Conferences

1. **Dongkeun Kim**, Jinsung Lee, Minsu Cho, Suha Kwak, "Detector-Free Weakly Supervised Group Activity Recognition", Proc. IEEE Computer Vision and Pattern Recognition (**CVPR**) 2022.

2. Minkyo Seo, **Dongkeun Kim**, Kyungmoon Lee, Seunghoon Hong, Jae Seok Bae, Jun Hoon Kim, Suha Kwak, "Neural Contrast Enhancement of CT Image", Proc. IEEE Winter Conference on Applications of Computer Vision (**WACV**) 2021.

Preprint

1. **Dongkeun Kim**, Youngkil Song, Minsu Cho, Suha Kwak, "Towards More Practical Group Activity Detection: A New Benchmark and Model", arXiv 2023.

Domestic Conferences

1. **Dongkeun Kim**, Dae-Eun Lim, "Modeling the Operation of Finite Capacitated Lifters in Semiconductor Fabrication Facilities", Korean Institute of Industrial Engineering (KIIE) & The Korean Operations Research and Management Science Society (KORMS) Joint Spring Conference 2014.

2. Dae-Eun Lim, **Dongkeun Kim**, "Modeling the Operation of a Lifter in a Semiconductor Fabrication Facility using Queueing Models", Fall Conference of The Korea Society for Simulation 2013.

PROJECTS

Cloud Robot IITP, South Korea   Apr. 2020 ∼ Dec. 2023

- Group Activity Recognition & Group Activity Detection

HONORS AND AWARDS

BK21 outstanding paper award,   2023

National Scholarship for Science and Engineering, Korea Student Aid Foundation, 2008 ∼ 2011, 2013 ∼ 2014

RESEARCH EXPERIENCES

Computer Vision Laboratory, POSTECH   Sep. 2018 ∼ current
Ph.D. student & researcher   Pohang, Korea
Advisor: Suha Kwak

Stochastic Modeling Laboratory, KAIST   Mar. 2013 ∼ Feb. 2015
M.S. student   Daejeon, Korea
Advisor: Kyung Chul Chae
Thesis: A Monte Carlo Simulation approach to the Discrete-Time Jackson Network

PROFESSIONAL EXPERIENCES

Hanbat National University   Mar. 2018 ∼ Dec. 2018
Lecturer   Daejeon, Korea

SIMNET   Feb. 2015 ∼ Feb. 2018
Developer   Daejeon, Korea

TEACHING EXPERIENCES

Teaching Assistant, Discrete Math for Computer Science, POSTECH	2021 Spring, 2022 Spring
Lecturer, Advanced Machine Learning, Hanbat National University	2018 Fall
Lecturer, Artificial Intelligence, Hanbat National University	2018 Spring
Teaching Assistant, Queueing Theory, KAIST	2014 Fall
Teaching Assistant, Stochastic Modeling I, KAIST	2014 Spring
Teaching Assistant, Manufacturing Process Innovation, KAIST	2013 Fall
Tutor, Operations Research II, KAIST	2013 Spring

EXTRA-CURRICULAR ACTIVITIES

elice.io 2015 Machine Learning Summer Camp   Aug. 2015
Participant