

DONGKEUN KIM

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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. Minkyoo 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 ~ current

- 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