

Hyeongmin Lee

Integrated M.S/Ph.D. Course, [iMage and Video Pattern recognition lab\(MVP\)](#)

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CONTACT

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Slide Share	https://www.slideshare.net/HyeongminLee3/presentations
Youtube	https://www.youtube.com/channel/UCz14hRj69FfGsl7ftF0D3ig
Google Scholar	https://scholar.google.co.kr/citations?user=eEB3K6gAAAAJ

INTERESTS

Computer Vision	Video Processing, Video Frame Interpolation, Image/Video Restoration Motion Estimation/Compensation, 3d Vision, Image/Video Super-Resolution Video Deblurring, Video Understanding, Video Object Segmentation
Machine Learning	Deep Learning, Generative Models, Self-Supervised Learning, Bayesian Deep Learning, Parallel Processing

EDUCATION

Mar.2018 – Present	INTEGRATED M.S./PH.D. Course in Electrical and Electronic Engineering YONSEI UNIVERSITY , Seoul, Korea Supervised by Prof. Sangyoun Lee
Mar.2014 – Feb.2018	B.S. in Electrical and Electronic Engineering YONSEI UNIVERSITY , Seoul, Korea Graduated Cum Laude GPA: 3.96/4.3

PUBLICATION

International Journal

AHD: Thermal-Image Based Adaptive Hand Detection for Enhanced Tracking System

Eungyeol Song, **Hyeongmin Lee**, Jaesung Choi, Sangyoun Lee

IEEE Access, Mar. 2018

International Conference

Learning Temporally Invariant and Localizable Features via Data Augmentation for Video Recognition

Taeoh Kim*, **Hyeongmin Lee***, MyeongAh Cho*, Hoseong Lee, Dong heon Cho, Sangyoun Lee

European Conference on Computer Vision Workshops (ECCVW 2020), Aug. 2020 (Oral)

(* Equal Contribution)

Extrapolative-Interpolative Cycle-Consistency Learning for Video Frame Extrapolation

Sangjin Lee, **Hyeongmin Lee**, Taeoh Kim, Sangyoun Lee

IEEE International Conference on Image Processing (ICIP 2020), Oct. 2020

AdaCoF: Adaptive Collaboration of Flows for Video Frame Interpolation

Hyeongmin Lee, Taeoh Kim, Tae-young Chung, Daehyun Pak, Yuseok Ban, Sangyoun Lee

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2020), Jun. 2020

SF-CNN : A Fast Compression Artifacts Removal via Spatial-to-Frequency Convolutional Neural Networks

Taeoh Kim, **Hyeongmin Lee**, Hanbin Son, Sangyoun Lee

IEEE International Conference on Image Processing (ICIP 2019), Sep. 2019

N-RPN : Hard Example Learning for Region Proposal Networks

MyeongAh Cho, Tae-young Chung, **Hyeongmin Lee**, Sangyoun Lee

IEEE International Conference on Image Processing (ICIP 2019), Sep. 2019

CollaboNet: Collaboration of Generative Models by Unsupervised Classification

Hyeongmin Lee, Taeoh Kim, Eungyeol Song, Sangyoun Lee

IEEE International Conference on Image Processing (ICIP 2018), Oct. 2018

Domestic Publications

Journal: 1 paper, Conference: 3 papers (in Korean)

PROJECTS

Apr.2020 – Dec.2020	Development of Data Augmentation-based AI Algorithm for Image Enhancement SAMSUNG ELECTRONICS CO. LTD.
May.2019 – Dec.2019	Locally Controllable Deep Neural Network Algorithm Development SAMSUNG ELECTRONICS CO. LTD.
Apr.2018 – Dec.2018	Development of Compact Deep Networks for Image Processing SAMSUNG ELECTRONICS CO. LTD.
Apr.2017 – Dec.2017	Broadcasting Device Controlling & Editing Technology using Personal Voice / Gesture Recognition INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGY PROMOTION (IITP), MINISTRY OF SCIENCE
Jul.2016 – Jun.2017	Facial Expression Recognition Using Deep Neural Network Graduation Research at Electrical and Electronic Engineering, Yonsei University

EXPERIENCES

Oct.2019 – Present	Member of PR12 <ul style="list-style-type: none">- Deep Learning paper reading group in Tensorflow Korea- Season 3 (Oct.2019 -)
Mar.2018 – Present	Creator & Manager of MVP Website <ul style="list-style-type: none">- Official Website of MVP Lab
Mar.2018 – Dec.2018	Teaching Assistant – Electrical and Electronic Engineering, Yonsei University <ul style="list-style-type: none">- [2018-1] Digital Signal Processing- [2018-2] Signal and System
Nov.2016 - Present	Young Engineers' Honor Society (YEHS) <ul style="list-style-type: none">- Organization under The National Academy of Engineering of Korea(NAEK)- Deputy Department Head of Academic Exchange Dpt. (Dec.2017 – Dec.2018)- Department Head of Academic Exchange Dpt. (Dec.2018 – Dec.2019)- President (Dec.2019 –)
Sep.2015 – Feb.2018	Electrical and Electronic Honor Society (EEHS) <ul style="list-style-type: none">- Organization under Yonsei University- President (Jul.2016 – Jun.2017)

S K I L L

Programming Languages

Python, CUDA, Visual C/C++, Matlab

Deep Learning Libraries

Pytorch, Tensorflow

Available Languages

Korean, English

Last Updated: July.30, 2020