

Hyeongmin Lee

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

[Yonsei University](#), Seoul, Korea

CONTACT

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Github	https://github.com/HyeongminLEE
Youtube	https://www.youtube.com/channel/UCz14hRj69FfGsl7ftF0D3ig
Google Scholar	https://scholar.google.co.kr/citations?user=eEB3K6gAAAAJ

INTERESTS

Area	Computer Vision Computational Photography Video Processing / Editing Motion Estimation
Task	Video Frame Interpolation Video Stabilization Super-Resolution

EDUCATION

Mar.2018 – Present

INTEGRATED M.S./PH.D. Course in **Electrical and Electronic Engineering**

- **YONSEI UNIVERSITY**, Seoul, Korea
- Supervised by [Prof. Sangyoun Lee](#)
- GPA: 4.24/4.3

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

Regularization Strategy for Point Cloud via Rigidly Mixed Sample

Dogyoon Lee, Jaeha Lee, Junhyeop Lee, **Hyeongmin Lee**, Minhyeok Lee, Sungmin Woo, Sangyoun Lee
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2021), Jun. 2021

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

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

Patent

Apparatus and method for interpolating frames based on multiple flows

Korea Patent no. **10-2201297**, Jan. 2021

Domestic Publication

Journal: 1 paper, Conference: 4 papers (in Korean)

PROJECTS

Apr.2020 – Dec.2020	Development of Data Augmentation-based AI Algorithm for Image Enhancement SAMSUNG RESEARCH
May.2019 – Dec.2019	Locally Controllable Deep Neural Network Algorithm Development SAMSUNG RESEARCH
Apr.2018 – Dec.2018	Development of Compact Deep Networks for Image Processing SAMSUNG RESEARCH
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

AWARDS

Aug.2020	Visual Inductive Priors for Data-Efficient Action Recognition Challenge <ul style="list-style-type: none">- 1st Visual Inductive Priors for Data-Efficient Deep Learning Workshop- European Conference on Computer Vision (ECCV) Workshop- 4th Place
Feb.2018	Honor Graduation Award <ul style="list-style-type: none">- Yonsei University

MEMBERSHIP & SERVICES

Membership	IEEE (Institute of Electrical and Electronics Engineers) <ul style="list-style-type: none">- Student Member (2020)
Services	Reviewer <ul style="list-style-type: none">- IEEE Open Journal of Signal Processing (2021)

ACTIVITIES

Oct.2019 – Present

Member of PR12

- Deep Learning paper reading group in [Tensorflow KR](#)
- [Season 3](#) (Oct.2019-Jan.2021)
- [Season 4](#) (Mar.2021-)

Mar.2019-Present

SNU AI Study

- Offline AI Study at Seoul National University
- Season 6 (Mar.2019-Jul.2019)
- Season 7 (Feb.2020-May.2020)
- Season 8 (Organizer) (Sep.2020-Dec.2020)
- Season 9 (Organizer) (Jan.2021-)

Mar.2018 – Present

Creator & Manager of MVP Website

- [Official Website of MVP Lab](#)

Mar.2018 – Dec.2018

Teaching Assistant – Electrical and Electronic Engineering, Yonsei University

- [2018-1] Digital Signal Processing
- [2018-2] Signal and System

Nov.2016 – Dec.2020

Young Engineers' Honor Society (YEHS)

- 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 – Dec.2020)

Sep.2015 – Feb.2018

Electrical and Electronic Honor Society (EEHS)

- Organization under Yonsei University
- President (Jul.2016 – Jun.2017)

SKILL

Programming Languages

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

Deep Learning Libraries

Pytorch, Tensorflow

Available Languages

Korean, English