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

EXPERIENCE

May.2021 – Jul.2021

RESEARCH INTERN at **Adobe Research**
- Working with **Dr. Simon Niklaus** and **Dr. Oliver Wang**

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), MINISTY 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** - 1st Visual Inductive Priors for Data-Efficient Deep Learning Workshop - European Conference on Computer Vision (ECCV) Workshop - **4th Place**
Feb.2018	**Honor Graduation Award** - Yonsei University

MEMBERSHIP & SERVICES

Membership	**IEEE (Institute of Electrical and Electronics Engineers)** - Student Member (2020)
Services	**Reviewer** - 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

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