

# 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	<a href="https://www.slideshare.net/HyeongminLee3/presentations">https://www.slideshare.net/HyeongminLee3/presentations</a>
Youtube	<a href="https://www.youtube.com/channel/UCz14hRj69FfGsl7ftF0D3ig">https://www.youtube.com/channel/UCz14hRj69FfGsl7ftF0D3ig</a>
Google Scholar	<a href="https://scholar.google.co.kr/citations?user=eEB3K6gAAAAJ">https://scholar.google.co.kr/citations?user=eEB3K6gAAAAJ</a>

## INTERESTS

Area	Computer Vision Computational Photography Image & Video Processing / Editing Image & Video Restoration / Enhancement Motion Estimation
Task	Video Frame Interpolation Super-Resolution

## EDUCATION

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

## PROJECTS

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

## EXPERIENCES

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

## S K I L L

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Programming Languages

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

Deep Learning Libraries

Pytorch, Tensorflow

Available Languages

Korean, English

*Last Updated: December. 2, 2020*