

# Hyeongmin Lee

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

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## CONTACT

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Github	<a href="https://github.com/HyeongminLEE">https://github.com/HyeongminLEE</a>
Slide Share	<a href="https://www.slideshare.net/HyeongminLee3/presentations">https://www.slideshare.net/HyeongminLee3/presentations</a>

## INTERESTS

Computer Vision	Video Generation, Video Understanding, Video Processing, Video Frame Interpolation, Future Frame Prediction, Image/Video Restoration
Machine Learning	Deep Learning, Generative Models, Self-Supervised Learning, Bayesian Deep Learning, Parallel Processing

## 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

#### **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)*, Oct. 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)*, Oct. 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

May.2019 – Present

#### **Locally Controllable Deep Neural Network Algorithm Development**

SAMSUNG ELECTRONICS CO. LTD.

Jun.2018 – Present

#### **Research and Human Resource Development for Intelligent Digital Contents Platform based on Ultra-high Speed Imagery**

INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGY PROMOTION (IITP), MINISTRY OF SCIENCE

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

Mar.2018 – Present

### Teaching Assistance – Electrical and Electronic Engineering, Yonsei University

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

Mar.2018 – Present

### Creator & Manager of MVP Website

- [Official Website of MVP Lab](#)

Sep.2015 – Feb.2018

### Electrical and Electronic Honor Society (EEHS)

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

Nov.2016 - Present

### 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 - )

## SKILL

Programming Languages

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

Deep Learning Libraries

Pytorch, Tensorflow

Available Languages

Korean, English

*Last Updated: MAY.01, 2019*