

# 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">https://www.slideshare.net/HyeongminLee3</a>

## INTERESTS

Computer Vision	Image Processing, Hand Gesture Recognition, Image Generation Video Analysis, Video Understanding
Machine Learning	Deep Learning, Convolutional Neural Networks, Recurrent Neural Networks Generative Adversarial Networks, Reinforcement Learning, Natural Language Processing
Mathematics	Linear Algebra, Topology

## 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>Magna 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

### **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 Journal

### **Target Region Detection Using Line Pruning Filter-Based Hough Transform for Augmented Reality**

**Hyeongmin Lee**, Sangyoun Lee

*Journal of The Institute of Electronics and Information Engineers*, Oct. 2017

Domestic Conference

### **Corner Detection with Improved Hough Transform by Line Pruning Filter for Augmented Reality**

**Hyeongmin Lee**, Hanbyeol Bae, Taejae Joen, Jinkyung Do, Sangyoun Lee

*Proceedings of Symposium of the Korean Institute of communications and Information Sciences*, Jun.2017

### **Deep learning-based Hand Gesture Recognition Algorithm using Multi-modality Information**

Jaesung Choi, **Hyeongmin Lee**, Sangyoun Lee

*Conference of the Institute of Electronics Engineers of Korea*, Nov.2017

## PROJECTS

Apr.2018 – Present

### **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

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 - )

## SKILL

Programming Languages  
Libraries  
Available Languages

Visual C/C++, Python, Matlab, HTML, CSS, Javascript  
OpenCV, Tensorflow  
Korean, English

*Last Updated: Jul.9, 2018*