

# Hyeongmin Lee

Ph.D. Candidate, [iMage and Video Pattern recognition lab\(MVP\)](#)

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## CONTACT

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|--------|---|
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| Github | <a href="https://github.com/HyeongminLEE">https://github.com/HyeongminLEE</a> |

## INTERESTS

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

## EDUCATION

|                     |  |
|---------------------|--|
| Mar.2018 – Present  | <b>PH.D.</b> Candidate in <b>Electrical and Electronic Engineering</b><br><b>YONSEI UNIVERSITY</b> , Seoul, Korea<br>Supervised by Prof. <b>Sangyoun Lee</b> |
| Mar.2014 – Feb.2018 | <b>B.S.</b> in <b>Electrical and Electronic Engineering</b><br><b>YONSEI UNIVERSITY</b> , Seoul, Korea<br>Graduated <b>Cum Laude</b><br>GPA: 3.96/4.3        |

## PUBLICATION

|                       |   |
|-----------------------|---|
| International Journal | <b>AHD: Thermal-Image Based Adaptive Hand Detection for Enhanced Tracking System</b><br>Eungyeol Song, <b>Hyeongmin Lee</b> , Jaesung Choi and Sangyoun Lee<br><i>IEEE Access</i> , Mar. 2018 |
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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** and 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

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 - )

## **S K I L L**

Programming Languages

Visual C/C++, Python, Matlab

Libraries

OpenCV, Tensorflow

Application Languages

HTML, CSS, Javascript

*Last Updated: May.14, 2018*