

Hyeongmin Lee

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

Yonsei University, Seoul, Korea

CONTACT

Tel	+82-2-2123-7843
E-mail	minimonia@yonsei.ac.kr
Web	https://hyeongminlee.github.io
Github	https://github.com/HyeongminLEE

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	PH.D. Candidate in Electrical and Electronic Engineering YONSEI UNIVERSITY , Seoul, Korea Supervised by Prof. Sangyoun Lee
Mar.2014 – Feb.2018	B.S. in Electrical and Electronic Engineering YONSEI UNIVERSITY , Seoul, Korea Graduated Cum Laude 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 <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**, 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