

Taeoh Kim

Ph. D. Student

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CONTACT

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Homepage <https://taeoh-kim.github.io>
Github <https://github.com/taeoh-kim>
YouTube <https://www.youtube.com/channel/UCtfvbtV82UDr-vHnj5sPeGQ/>

Lab iMAGE and Video Pattern Recognition Lab (MVPLAB)
Advised by Prof. **Sangyoun Lee**
<http://mvp.yonsei.ac.kr>

Tensorflow - Korea

PR (Paper Reader) 12 Member: s1 & s2
<https://www.youtube.com/playlist?list=PLIMkM4tgfjnJhhd4wn5qj8fVTYJwlpWkS>

RESEARCH INTERESTS

Computer Vision Image/Video Restoration (Low-level Vision)
Object Detection and Tracking

Machine Learning Deep Learning, Model Compression and Bayesian Machine Learning

SKILLS

Languages C, C++, MATLAB, Python and HTML/CSS
Frameworks OpenCV, Tensorflow and PyTorch

EDUCATION

Sep. 2014 – Present **PH. D.** in Electrical and Electronic Engineering (GPA 4.23 / 4.3)
YONSEI UNIVERSITY, Seoul, Korea

Mar. 2009 – Feb. 2015 **B.S.** in Electrical and Electronic Engineering (GPA 3.75 / 4.3)
YONSEI UNIVERSITY, Seoul, Korea

PUBLICATIONS

Int. Journal

Sampling Operator to Learn the Scalable Correlation Filter for Visual Tracking
Minkyu Lee, **Taeoh Kim**, Eungyeol Song, Yuseok Ban and Sangyoun Lee
IEEE Access, 2019

Int. Conferences

SF-CNN: A Fast Compression Artifacts Removal via Spatial-to-Frequency
Convolutional Neural Networks

Taeoh Kim, Hyeongmin Lee, Hanbin Son and Sangyoun Lee
IEEE International Conference on Image Processing (ICIP) 2019

NIR-to-VIS Face Recognition via Embedding Relations and Coordinates of the
Pairwise Features

Myeong Ah Cho, Tae-young Chung, **Taeoh Kim** and Sangyoun Lee
IAPR International Conference on Biometrics (ICB) 2019

Face Landmark Detection using Gaussian Guided Regression Network

Yongju Lee, **Taeoh Kim**, Taejae Jeon, Hanbyeol Bae and Sangyoun Lee
International Technical Conference on Circuits/Systems, Computers and Communications
(ITC-CSCC) 2019

CollaboNet: Collaboration of Generative Models by Unsupervised Classification

Hyeongmin Lee, **Taeoh Kim**, Eungyeol Song and Sangyoun Lee
IEEE International Conference on Image Processing (ICIP) 2018

Compressed Video Noise Sensitivity Analysis for Blocking Artifact Reduction

Changhyun Park, **Taeoh Kim**, Hanbin Son, Kyungjae Lee, and Sangyoun Lee
International Conference on Electronics, Information and Communication (ICEIC) 2018

Adaptive In-Loop Filtering for Ringing Artifact Reduction using Noise Level
Prediction in HEVC

Hanbin Son, Changhyun Park, **Taeoh Kim** and Sangyoun Lee
International Conference on Electronics, Information and Communication (ICEIC) 2018

A Video Coding System based on Coefficient Modeling Considering Visual
Artifact

Taeoh Kim, Changhyun Park, Hanbin Son, and Sangyoun Lee
International Conference on Electronics, Information and Communication (ICEIC) 2017

Pedestrian Detection using HOG, LBP and Color LBP

Taejae Jeon, **Taeoh Kim**, Hyunhye Shin and Sangyoun Lee
International Technical Conference on Circuits/Systems, Computers and Communications
(ITC-CSCC) 2015

PROJECTS

Sep. 2016 – Present	Emotional Intelligence Technology to Infer Human Emotion and Carry on Dialogue Accordingly INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGY PROMOTION (IITP), MINISTRY OF SCIENCE
May. 2019 – Present	Locally Controllable DNN Algorithm Development SAMSUNG ELECTRONICS CO. LTD.
Apr. 2019	7 th Place UAV ERTI CHALLENGE, CVPR WORKSHOP, 2019
Apr. 2018 – Dec. 2018	Development of Compact Deep Networks for Image Processing SAMSUNG ELECTRONICS CO. LTD.
Jul. 2015 – Aug. 2017	Development of Novel Coding Framework based on Video Processing Quality-Aware Modeling SAMSUNG ELECTRONICS CO. LTD.
Sep. 2014 – Dec. 2015	Development of Next Generation Digital TV Broadcasting System INFORMATION TECHNOLOGY RESEARCH CENTER (ITRC), IITP, MINISTRY OF SCIENCE

AWARDS

Aug, 2015	Project « Tell-A-Byte » 1ST AWARD – Global Entrepreneurship Camp Korea 2015 Operated by IITP Korea with Stanford University
Feb, 2015	AWARDED THE HIGHEST HONERS – Top 1%, 2014-2 nd Semester Undergraduate School, Yonsei University
Aug, 2014	AWARDED HIGH HONERS – Top 3%, 2014-1 st Semester Undergraduate School, Yonsei University
Feb, 2014	AWARDED HONERS – Top 10%, 2013-2 nd Semester Undergraduate School, Yonsei University

EXPERIENCES

Present

SNU AI Study (Season 5 & 6)

Present

Facebook Tensorflow-Korea PR-12 (Season 1 & 2)

Mar. 2015 – Dec. 2017

TEACHING ASSISTANCE– School of EE, Yonsei University

[2015-1] Digital Signal Processing,

[2015-2] Signal and Systems

[2016-2] Electrical & Electronic Engineering Experiments: Applications

[2017-1] Electrical & Electronic Engineering Experiments: Applications

[2017-2] Electrical & Electronic Engineering Experiments: Applications

Sep. 2013 – Jun. 2014

Y.D.M.C. ALUMNI– Yonsei University Dream Major Conductor

Representative of Electrical & Electronic Engineering

<https://cafe.naver.com/yydmc>