

Jiyoung Lee

SOFTWARE ENGINEER · RESEARCHER

Digital Image Media Laboratory, C129, The 3rd Engineering Building, Yonsei-ro 50, Seodaemun-Gu, Seoul, Rep. of KOREA

☎ (+82) 10-2413-9335 | ✉ easy00@yonsei.ac.kr | 🌐 <https://easy00.github.io/> | 📧 lee0924

Education

Yonsei University

PH.D. CANDIDATE IN SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

- Working with Prof. Kwanghoon Sohn.

Seoul, S.Korea

Mar. 2016 - Present

Yonsei University

B.S. IN SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

Seoul, S.Korea

Mar. 2012 - Feb. 2016

Publication

“Tri-modal Recurrent Attention Networks for Emotion Recognition”

Jiyoung Lee, Sunok Kim, Seungryong Kim, and Kwanghoon Sohn

- IEEE Transaction on Image Processing (TIP), (Under Review)

Jun. 2019

“Context-Aware Emotion Recognition Networks”

Jiyoung Lee, Seungryong Kim, Sunok Kim, Jungin Park, and Kwanghoon Sohn

- International Conference on Computer Vision (ICCV)

Oct. 2019

“Graph Regularization Network With Semantic Affinity for Weakly-supervised Temporal Action Localization”

Jungin Park, Jiyoung Lee, Sangryul Jeon, Seungryong Kim, and Kwanghoon Sohn

- IEEE International Conference on Image Processing (ICIP)

Sep. 2019

“Audio-Visual Attention Networks for Emotion Recognition”

Jiyoung Lee, Sunok Kim, Seungryong Kim, and Kwanghoon Sohn

- ACM Multimedia Workshop- Workshop on Audio-Visual Scene Understanding for Immersive Multimedia (MMW)

Oct. 2018

“Learning to Detect, Associate, and Recognize Human Actions and Surrounding Scenes in Untrimmed Videos”

Jungin Park, Sangryul Jeon, Seungryong Kim, Jiyoung Lee, Sunok Kim, and Kwanghoon Sohn

- ACM Multimedia Workshop- The 1st Workshop and Challenge on Comprehensive Video Understanding in the Wild (MMW)

Oct. 2018

“Spatiotemporal Attention Based Deep Neural Networks for Emotion Recognition”

Jiyoung Lee, Sunok Kim, Seungryong Kim, and Kwanghoon Sohn

- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

Apr. 2018

“Automatic 2D-to-3D Conversion using Multi-scale Deep Neural Network”

Jiyoung Lee, Hyungjoo Jung, Youngjung Kim, and Kwanghoon Sohn

- IEEE International Conference on Image Processing (ICIP)

Sep. 2017

Patent

“Apparatus and Method for Recognizing Activity and Detecting Activity Area in Video”

Jiyoung Lee, and Kwanghoon Sohn

- Korea patent, 10-2019-0034501

Mar. 2019

“Emotion Recognition Apparatus and Method Based on Spatiotemporal Attention”

Jiyoung Lee, and Kwanghoon Sohn

- Korea patent, 10-2018-0053306

May. 2018

Research Experiences

Intelligent Virtual Reality: Deep Audio-Visual Representation Learning for Multimedia Perception and Reproduction

S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY.

Sep. 2017 – Present

- Developed deep network using audio-visual data.

Fundamental Study of Vision Algorithms for Comprehensive and Thorough Understanding of Videos

S.Korea

FUNDED BY MINISTRY OF SCIENCE, ICT AND FUTURE PLANNING.

Sep. 2017 – Present

- Developed an algorithm for understanding untrimmed videos.

Emotional Intelligence Technology to Infer Human Emotion and Carry on Dialogue Accordingly

S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY.

Sep. 2017 – Jun. 2018

- Developed an algorithm for inferring human emotion from multi-spectral images.

High Quality 2D-to-Multiview Contents Generation from Large-Scale RGB+D Database

S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY.

Mar. 2016 – Aug. 2017

- Developed deep network for inferring high-quality depth from a single 2-D image.

Yonsei University, Dept. of Electrical and Electronic Engineering

S.Korea

TEACHING ASSISTANT.

Mar. 2016 – Feb. 2017

- Digital signal processing, Electrical and electronic engineering experiments: fundamentals.

Honors & Awards

DOMESTIC

2018	Silver Prize , Ulsan KBS UCC Contest	S.Korea
2016	2nd Award , Sungshin Startup 4th Idea Contest	S.Korea
2016	Finalist & Award , University Startup 300	S.Korea
2015	Silver Prize , Yonsei Creative Design Challenge	S.Korea
2015	Award , Campus Reboot Startup Camp	S.Korea

Skills

Programming	Python, C/C++, JAVA, Ruby, Lua, MATLAB, OpenCV, LaTeX, Linux
Deep learning	PyTorch, Tensorflow, Caffe, Torch
Web	Django, Ruby on Rails, HTML5, CSS, Javascript
Languages	Korean, English