

Jiyoung Lee

SOFTWARE ENGINEER · RESEARCHER

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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

“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

Research Experiences

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

Funded by Institute of Information & Communication Technology.

- Developed deep network using audio-visual data.

S.Korea

Sep. 2017 - Present

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

Funded by Ministry of Science, ICT and Future Planning.

- Developed an algorithm for understanding untrimmed videos.

S.Korea

Sep. 2017 - Present

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

Funded by Institute of Information & Communication Technology.

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

S.Korea

Sep. 2017 - Jun. 2018

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

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY.

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

S.Korea

Mar. 2016 – Aug. 2017

Yonsei University, Dept. of Electrical and Electronic Engineering

TEACHING ASSISTANT.

- Digital signal processing.

S.Korea

Sep. 2017 – Present

Honors & Awards

DOMESTIC

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| 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 | Award , Campus Reboot Startup Camp | S.Korea |

Skills

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| 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 |