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Interests_

2-D/3-D Computer vision, Video understanding, Affective computing, and Deep learning.

Education

Yonsei University Seoul, S.Korea

Ph.D. Candidate in School of Electrical and Electronic Engineering

Mar. 2016 - Present

· Working with Prof. Kwanghoon Sohn.

Yonsei University Seoul, S.Korea

B.S. IN SCHOOL OF ELECTRICAL AND ELECTRONIC ENGINEERING

Mar. 2012 - Feb. 2016

Publication

"Tri-modal Recurrent Attention Networks for Emotion Recognition"

JIYOUNG LEE, SUNOK KIM, SEUNGRYONG KIM, AND KWANGHOON SOHN

Jun. 2019

• IEEE Transaction on Image Processing (TIP), (Major Revision)

"Video Summarization by Learning Relationships between Action and Scene"

JUNGIN PARK, JIYOUNG LEE, SANGRYUL JEON, AND KWANGHOON SOHN

Oct. 2019

• International Conference on Computer Vision Workshop (ICCV Workshop-CoVieW)

"Context-Aware Emotion Recognition Networks"

JIYOUNG LEE, SEUNGRYONG KIM, SUNOK KIM, JUNGIN PARK, AND KWANGHOON SOHN

Oct. 2019

• International Conference on Computer Vision (ICCV)

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

JUNGIN PARK, JIYOUNG LEE, SANGRYUL JEON, SEUNGRYONG KIM, AND KWANGHOON SOHN

Sep. 2019

• IEEE International Conference on Image Processing (ICIP)

"Audio-Visual Attention Networks for Emotion Recognition"

JIYOUNG LEE, SUNOK KIM, SEUNGRYONG KIM, AND KWANGHOON SOHN

Oct. 2018

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

"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

Oct. 2018

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

"Spatiotemporal Attention Based Deep Neural Networks for Emotion Recognition"

JIYOUNG LEE, SUNOK KIM, SEUNGRYONG KIM, AND KWANGHOON SOHN

Apr. 2018

IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)
 "Automatic 2D-to-3D Conversion using Multi-scale Deep Neural Network"

JIYOUNG LEE, HYUNGJOO JUNG, YOUNGJUNG KIM, AND KWANGHOON SOHN

Sep. 2017

• IEEE International Conference on Image Processing (ICIP)

Patent

"Audio-Video Matching Area Detection Apparatus and Method"

JIYOUNG LEE, AND KWANGHOON SOHN

Jul. 2019

• Korea patent, 10-2019-0090937

"Apparatus and Method for Recognizing Activity and Detecting Activity Area in Video"

JIYOUNG LEE, AND KWANGHOON SOHN

Mar. 2019

· Korea patent, 10-2019-0034501

"Emotion Recognition Apparatus and Method Based on Spatiotemporal Attention"

JIYOUNG LEE, AND KWANGHOON SOHN May. 2018

• Korea patent, 10-2018-0053306

Research Experiences

Deep Identification and Tracking of Missing Person in Heterogeneous CCTV

S.Korea

Funded by Ministry of Science, National Research Foundation

Sep. 2018 - Present

• Developed an algorithm for pedestrian detection.

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 an algorithm using audio-visual data.

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

S Korea

FUNDED BY MINISTRY OF SCIENCE, ICT AND FUTURE PLANNING.

Sep. 2017 - Present

• Developed an algorithm for understanding untrimmed videos.

Development of the High-Precision AR & VR Contents Based on Smart-Car Sensors

S.Korea

FUNDED BY INSTITUTE OF INFORMATION & COMMUNICATION TECHNOLOGY

Jan. 2017 - Present

• Developed an algorithm for dense stereo matching in outdoor environments.

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 an algorithm 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.

Professional Activities

Reviewers

IEEE Access

Media Coverage _____

"A deep learning technique for context-aware emotion recognition."

TechXplore Aug. 2019

Honors & Awards

2019	3rd Award , CoVieW 2019 (ICCV Challenge)	CoVieW'19
2018	Silver Prize, Ulsan KBS UCC Contest	KBS
2016	Finalist & Award, University Startup 300	Ministry of Education, S.Korea
2016	2nd Award, Sungshin Startup 4th Idea Contest	Sungshin University
2015	Silver Prize, Yonsei Creative Design Challenge	Yonsei University
2015	Award, Campus Reboot Startup Camp	Ministry of Education, S.Korea



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