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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

Experience _____

Microsoft Research AI Redmond, USA

RESEARCH INTERN April. 2020 - Present

- HUE: Human Understanding and Empathy Group.
- · Working with Dr. Daniel McDuff and Dr. Yale Song.
- · Artificial Social Intelligence.

Publication

"Multi-modal Recurrent Attention Networks for Facial Expression Recognition"

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

May. 2020

· IEEE Transaction on Image Processing (TIP), (Accept)

"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"	
IYOUNG LEE, AND KWANGHOON SOHN Korea patent, 10-2019-0090937	Jul. 2019
Apparatus and Method for Recognizing Activity and Detecting Activity Area in Video"	
IYOUNG LEE, AND KWANGHOON SOHN	Mar. 2019
Korea patent, 10-2019-0034501	
Emotion Recognition Apparatus and Method Based on Spatiotemporal Attention"	May 2011
IYOUNG LEE, AND KWANGHOON SOHN Korea patent, 10-2018-0053306	May. 2018
Research Experiences	
eep Identification and Tracking of Missing Person in Heterogeneous CCTV	S.Korec
unded by Ministry of Science, National Research Foundation	Sep. 2018 – Present
Developed an algorithm for pedestrian detection.	
ntelligent Virtual Reality: Deep Audio-Visual Representation Learning for Multimedia Perception and Reproduction	S.Kored
unded by Institute of Information & Communication Technology.	Sep. 2017 – Present
Developed an algorithm using audio-visual data.	
undamental Study of Vision Algorithms for Comprehensive and Through Understanding	S.Korea
f Videos unded by Ministry of Science, ICT and Future Planning.	Sep. 2017 - Present
Developed an algorithm for understanding untrimmed videos.	3eμ. 2011 - 1 Tesem
evelopment of the High-Precision AR & VR Contents Based on Smart-Car Sensors	S.Korea
unded by Institute of Information & Communication Technology	Jan. 2017 – Present
Developed an algorithm for dense stereo matching in outdoor environments.	
motional Intelligence Technology to Infer Human Emotion and Carry on Dialogue ccordingly	S.Korea
unded by Institute of Information & Communication Technology.	Sep. 2017 - Jun. 2018
Developed an algorithm for inferring human emotion from multi-spectral images.	
ligh Quality 2D-to-Multiview Contents Generation from Large-Scale RGB+D Database	S.Korea
unded ву Institute of Information & Communication Technology. Developed an algorithm for inferring high-quality depth from a single 2-D image.	Mar. 2016 – Aug. 2017
onsei University, Dept. of Electrical and Electronic Engineering	S.Korea
EACHING ASSISTANT.	Mar. 2016 – Feb. 2017
Digital signal processing, Electrical and electronic engineering experiments: fundamentals.	
Professional Activities	
Reviewers	
EEE Access	
Media Coverage	
A deep learning technique for context-aware emotion recognition."	
ECHXPLORE	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

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