

Hongje Seong

Contact

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Yonsei university,
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Languages

Korean, English

Interests

Computer vision and machine learning

Education

- | | | |
|-----------------|--|-------------------|
| 03/18 - Present | Ph.D. student School of Electrical & Electronic Engineering
<i>Advisor: Prof. Euntai Kim</i> | Yonsei University |
| 03/12 - 02/18 | B.S. School of Electrical & Electronic Engineering | Yonsei University |

Experience

- | | | |
|-----------------|--|--------------|
| 03/18 - Present | Yonsei University
<i>Research Assistant @ CILAB</i>
Participation in several research projects | Seoul, Korea |
| 03/18 - 12/18 | Yonsei University
<i>Teaching Assistant</i> <ul style="list-style-type: none">• Data Structure and Algorithms• Introduction Artificial Intelligence | Seoul, Korea |

Publications

Journal

FOSNet: An End-to-End Trainable Deep Neural Network for Scene Recognition
Hongje Seong, Junhyuk Hyun and Euntai Kim
IEEE Access, vol. 8, no. 1, pp. 82066-82077, December, 2020.

Conference

Unsupervised Domain Adaptation for Semantic Segmentation by Content Transfer
Suhyeon Lee, Junhyuk Hyun, Hongje Seong, and Euntai Kim
in Proc. of the Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), February, 2021.

Kernelized Memory Network for Video Object Segmentation
Hongje Seong, Junhyuk Hyun, and Euntai Kim
in Proc. of the European Conference on Computer Vision (ECCV), August, 2020.

Is Whole Object Information Helpful for Scene Recognition?
Hongje Seong, Junhyuk Hyun, and Euntai Kim
in Proc. of the 17th International Conference on Ubiquitous Robots (UR), June, 2020.

A Kernel-based Approach for Video Object Segmentation
Hongje Seong, Junhyuk Hyun, and Euntai Kim
in The 2020 DAVIS Challenge on Video Object Segmentation (DAVIS'20, CVPRW), June, 2020.

Video Multitask Transformer Network
Hongje Seong, Junhyuk Hyun and Euntai Kim
in Proc. of the IEEE International Conference on Computer Vision Workshops (CoVieW'19, ICCVW), October, 2019.

Partial Convolution for Scene Recognition
Hongje Seong, Junhyuk Hyun, Seongwon Lee and Euntai Kim
in Proc. of the 19th International Conference on Control, Automation and Systems (ICCAS), October, 2019.

Scene Recognition via Object-to-Scene Class Conversion: End-to-End Training
Hongje Seong, Junhyuk Hyun, Hyunbae Chang, Suhyeon Lee, Suhan Woo and Euntai Kim
in Proc. of the International Joint Conference on Neural Networks (IJCNN), July, 2019.

Weakly Supervised Temporal Localization in Video Scene Recognition
Junhyuk Hyun, Hongje Seong, Suhyeon Lee, Suhan Woo and Euntai Kim
in Proc. of the 18th International Conference on Control, Automation and Systems (ICCAS), October, 2018.

New Feature-level Video Classification via Temporal Attention Model
Hongje Seong, Junhyuk Hyun, Suhyeon Lee, Suhan Woo, Hyunbae Chang and Euntai Kim
in Proc. of the 1st Workshop and Challenge on Comprehensive Video Understanding in the Wild (CoVieW'18, ACM MM Workshop), October, 2018.

Awards

2020	3rd Place Award	DAVIS'20 (CVPR Workshop)
	The 2020 DAVIS Challenge on Video Object Segmentation (DAVIS 2020)	
2019	Best Poster Award 3rd Place	School of Electrical & Electronic Engineering, Yonsei University
	Workshop on Frontiers of Electrical Engineering (FREE) 2019	
2018	2nd Place Award	CoVieW'18 (ACM MM Workshop)
	The 1st Workshop and Challenge on Comprehensive Video Understanding in the Wild (CoVieW 2018)	
2017	4th Place Award	Korea Transportation Safety Authority (TS) & Korea Auto-Vehicle Safety Association (KASA)
	Autonomous Car Racing in 2017 International Student Car Competition	

Patents

Apparatus for predicting traffic line of box-level multiple object using only position information of box-level multiple object

Euntai Kim, Youngjo Lee, Hongje Seong and Junhyuk Hyun
Korea - Application No. 10-2020-0149533

Apparatus for predicting movement of box-level object using only position information of box-level object

Euntai Kim, Youngjo Lee, Hongje Seong and Junhyuk Hyun
Korea - Application No. 10-2020-0149532

Pixel Level Video Object Tracking Apparatus Using Box Level Object Position Information

Euntai Kim, Hongje Seong, Youngjo Lee and Junhyuk Hyun
Korea - Application No. 10-2020-0030214
International (PCT) - Application No. PCT/KR2020/005383

Action Recognition Method and Apparatus in Untrimmed Videos Based on Artificial Neural Network

Euntai Kim, Hongje Seong and Junhyuk Hyun
Korea - Application No. 10-2020-0029743

Apparatus for Recognizing a Place based on Artificial Neural Network and Learning Method thereof

Euntai Kim, Hongje Seong, Junhyuk Hyun, Suhyeon Lee, Suhan Woo and Hyunbae Chang
Korea - Application No. 10-2019-0041544
International (PCT) - Application No. PCT/KR2020/001018

Apparatus and Method for Detecting Object based on Heterogeneous Sensor

Euntai Kim, Junhyuk Hyun, Suhyeon Lee, Suhan Woo and Hongje Seong
Korea - Application No. 10-2018-0055179

Method and Apparatus for Generating Scene Situation Information of Video Using Differentiation of Image Feature and Supervised Learning
Euntai Kim, Junhyuk Hyun, Suhyeon Lee, Suhan Woo and Hongje Seong
Korea - Application No. 10-2018-0049520

Projects

(09/17-12/20) Research on Fundamental Technology for Deep Learning-Based Semantic State Understanding

National Research Foundation of Korea (NRF)

(09/17-05/19) Development of part-based pedestrian detection and tracking system for autonomous vehicle

National Research Foundation of Korea (NRF)

Last updated: 3rd December 2020