Woo Young Kang.

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Education& Employment	**Surromind Robotics,** August 2017 – • Assistant Researcher **Seoul National University**, September 2015 – August 2017 • M.S. in Computer Science and Engineering • Advisor: Byoung-Tak Zhang • GPA: 3.76/4.3 **Chonbuk National University**, March 2008 – August 2014 • B.S. in Computer Engineering. • GPA: 3.88/4.0

Skills

Web Technology
JavaScript, HTML

Programming Languages
Python, Matlab, C/C++, JAVA,
MFC

Library
Tensorflow, Pythorch,
MatconvNet, OpenCV

**Publications
(International)**

[1] **W.-Y. Kang** and B.-T. Zhang, "Continual Learning with Generative Replay via Discriminative Variational Autoencoder", NIPS 2018 Workshop on Continual Learning.

[2] **W.-Y. Kang**, K.-H. Park, and B.-T. Zhang, "Extremely Sparse Deep Learning using Inception Modules with Dropfilters", International Conference on Document Analysis and Recognition 2017, November, 2017

[3] C.-H. Han, S.-W. Lee, Y.-J. Heo, **W.-Y. Kang**, J.-H. Jun, and B.-T. Zhang, "Criteria for Human-Compatible AI in Two-Player Vision-Language Tasks", IJCAI 2017 Workshop on LaCATODA, August, 2017

[4] C.-H. Han, Y.-J. Heo, **W.-Y. Kang**, J.-H. Jun, and B.-T. Zhang, "Attention Memory for Locating an Object through Visual Dialogue", CVPR 2017 Workshop on Video Questioning and answering, July, 2017

Publications (Domestic)	[1] **Wooyoung Kang** and Byoung-Tak Zhang, "Hangul Handwriting Recognition using Sparse Convolutional Neural Networks Based on Inception Modules with Dropfilter", KCC2017, June, 2017

[2] Sang-Woo Lee, Cheolho Han, Yujung Heo, **Wooyoung Kang**, Jaehyun Jun, and Byoung-Tak Zhang, "Analyzing and Solving GuessWhat?!", KCC2017, June, 2017

[3] Jaehyun Jun, **Wooyoung Kang,** Cheolho Han, Yujung Heo, and Byoung-Tak Zhang, "Goal-oriented Question Generator model using Attention for GuessWhat", KCC2017, June, 2017

[4] **Wooyoung Kang** and Byoung-Tak Zhang, "Image Classification using Convolutional Neural Networks Based on Discriminative Features", KIISE, autumn conference 2016, December, 2016

[5] Hwiyeol Jo, **Wooyoung Kang,** Dong-Sig Han, and Byoung-Tak Zhang, "Konvbot: Korean Conversational Model - for Childcare", KIISE, autumn conference 2016, December, 2016

[6] Sang-Woo Lee, Dong-Hyun Kwak, Kyoung-Woon On, Yujung Heo, **Wooyoung Kang,** Ceyda Cinarel, and Byoung-Tak Zhang, "Robust Scheduling based on Daily Activity Learning by using Markov Decision Process and Inverse Reinforcement Learning", KIISE, autumn conference 2016, December, 2016

[7] **Wooyoung Kang,** Byoung-Hee Kim, and Byoung-Tak Zhang, "Hangeul Handwriting Recognition using Deeper Convolutional Neural Networks Based on Inception Modules", KCC2016, June, 2016

[8] **Woo-Young Kang** and Hyo-Jong Lee, "Vehicle Model Recognition using Retinex Algorithm during Night-Time", The Institute of Electronics and Information Engineers, autumn conference, Poster Session, November, 2013"

[9] **Woo-Young Kang** and Hyo-Jong Lee, "Development of Model Recognition Algorithm using CCTV Image", The Institute of Electronics and Information Engineers, summer conference, Poster Session, July, 2013;

[10] **Woo-Young Kang**, Tae-Gyun Lee, Min-Ho Kwak, and Hyo-Jong Lee, "Development of Model Recognition Algorithm for Moving Vehicles", The Korean Institute of Information Scientists and Engineers, autumn conference, Poster Session, November, 2012;

Activities	• Club member, web programming, 2012 – 2014
	• Elementary physics tutor from Chonbuk National University, March 2013 – June 2013
	• Signal corpsman, the Korea Army, April 2009 – February 2011

Awards and Honors	• Excellence Award for Master`s Thesis, August 2017
	• Ranked 2nd when graduation – 2 / 83, August 2014
	• Best paper awards from domestic conferences – 3 times
	• A citation from Regimental commander, December 2011
	• Academic scholarships from Chonbuk National University
	➤ Full tuition & fee for two semesters
	➤ Half tuition & fee for three semesters
	• National Grant Scholarships - 4 times