JANGHO KIM

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Hub

RESEARCH INTEREST

Machine Learning, Computer Vision, Pattern Recognition and Deep Learning.

EDUCATION

Seoul National University, Korea

Ph.D. candidate, Program in Intelligent Systems Department of Transdisciplinary Studies, (GPA:4.11/4.3)

- Adviser: Prof. Nojun Kwak
- Machine Intelligence Pattern Analysis Lab

Pohang University of Science and Technology (POSTECH), Korea Mar. 2015 - Feb. 2017 MS., Computer Science and Engineering, (GPA:3.89/4.3)

- Adviser: Prof. Daijin Kim
- Intelligent Media Lab

Dongguk University, Korea

BS., Information and Communication Engineering, Cum laude (GPA:4.18/4.5) (Republic of Korea Air Force (ROKAF) : Sep. 2010 - Sep. 2012)

PUBLICATIONS

< International Conferences >

Jangho Kim, Simyung Chang, Sungrack Yun, Nojun Kwak, "Prototype-based Personalized Pruning", 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2021), June. 2021, online

Jangho Kim, KiYoon Yoo, Nojun Kwak, "Position-based Scaled Gradient for Model Quantization and Sparse Training", Thirty-fourth Conference on Neural Information Processing Systems (NeurIPS 2020), Dec. 2020, online

Jangho Kim, Minsung Hyun, Inseop Chung, Nojun Kwak, "Feature Fusion for Online Mutual Knowledge Distillation", 25th International Conference on Pattern Recognition (ICPR 2020), Milan, Italy, Jan. 2021.

Inseop Chung, SeongUk Park, **Jangho Kim**, Nojun Kwak, "Feature-map-level Online Adversarial Knowledge Distillation", Thirty-seventh International Conference on Machine Learning (ICML 2020), July 2020, Online.

Jangho Kim^{*}, Jeesoo Kim^{*}, Nojun Kwak (* equal contribution), "StackNet: Stacking Parameters for Continual learning", CVPR 2020 Workshop on Continual Learning in Computer Vision, June 2020, Seattle WA (Online).

Jangho Kim, SeoungUK Park, Nojun Kwak, "Paraphrasing Complex Network: Network Compression via Factor Transfer", Thirty-second Conference on Neural Information Processing Systems (NeurIPS 2018), Montreal, Canada, Dec. 2018.

Sep. 2017 - Present

Mar. 2009 - Feb. 2015

Jangho Kim, Yong-Joong Kim, Yonghyun Kim, Daijin Kim, "Detecting Korean characters in natural scenes by alphabet detection and agglomerative character construction", IEEE International Conference on Systems, Man, and Cybernetics 2016 (SMC 2016).

< Open Archive >

Jangho Kim^{*}, Yash Bhalgat^{*}, Jinwon Lee, Chirag Patel, Nojun Kwak (* equal contribution), "QKD: Quantization-aware Knowledge Distillation", arXiv, Nov. 2019

Jeesoo Kim^{*}, **Jangho Kim**^{*}, Jaeyoung Yoo, Daesik Kim, Nojun Kwak (* equal contribution), "Vehicle Image Generation Going Well With the Surroundings", arXiv, Nov. 2018

WORK EXPERIENCE

Qualcomm AI Research, Seoul Research intern Jan. 2021 - current • Machine Learning Qualcomm AI Research, Seoul Research intern Jul. 2020 - Jan. 2021 • Model Pruning Qualcomm AI Research, San Diego, CA Research intern • Model Quantization Jul. 2019 - Oct. 2019 -Attending the MicroNet Challenge organised by a collaboration of DeepMind, GoogleAI, facebookAI and OpenAI TEACHING EXPERIENCE Pohang University of Science and Technology (POSTECH), Korea Teaching Assistant Mar. 2016 - Jun. 2016 • CSED514 pattern recognition AWARDS AND HONORS 2019 3rd ranking on ImageNet Classification, MicroNet Challenge Hosted at NeurIPS 2019 Honor Student Award, ROKAF Technical School 2010 Merit-Based Scholarship, Dongguk University 2010 - 2014 PROJECTS • Intelligent System for Outdoor Security Robot funded by Ministry of Science and ICT of Korea Oct. 2019 - Jul. 2020 - Object detection and continual learning • Development of health information estimation algorithm using bio-signal and machine learning funded by Samsung IM (Mobile Communication Business) Jan. 2019 - Jul. 2019 - Health care with Deep learning.

 Deep learning model compression using knowledge transfer funded by Samsung Advanced Institute of Technology (SAIT) Model compression, Ensemble model. 	Jul. 2018 - Jul. 2019
• Development of transfer learning technology for improving traffic formance	c object detection per-
funded by Ministry of Science and ICT of Korea - Knowledge transfer.	May. 2018 - Nov. 2018
• Development of Real-time Image Recognition Defense Big Data funded by Agency for Defense Development - Deep Model compression.	Platform ("D-Net") Jul. 2017 - Nov. 2018
• Development of Danger/Abnormal Situation Recognition and I for Intelligent systems	Prediction Technology
funded by the Ministry of Science and ICT of Korea - Car detection, license plate, text detection, and text recognition.	Jan. 2016 - Dec. 2016
• KT-POSTECH Open R&D Development of Object Analysis Tec telligence	hnology for Media In-
funded by Korea Telecom (KT) - Abandoned and Removed Object Detection and English Text Detection me	Jan. 2016 - Dec. 2016 ethods.

 Development of Image Analysis Technology for General Product Recognition System funded by Samsung DMC (R&D center)
 Dec. 2015 - Dec. 2016
 Object Recognition method using deep convolutional neural networks to classify products and logos.

• Development of wearable display device technology to display information on efficient excavator work

funded by Doosan Infracore - Google glass application. Feb. 2015 - Nov. 2015