Juyong Kim

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Education

Machine Learning Department, Carnegie Mellon University Sep. 2018 – Current
- Ph.D. student in Machine Learning
- Advisor: Prof. Pradeep Ravikumar

Vision & Learning Lab., Seoul National University (GPA: 4.18/4.3) Mar. 2016 – Feb. 2018
- M.S. in Computer Science and Engineering
- Advisor: Prof. Gunhee Kim

Seoul National University (GPA: 4.06/4.3 GPA in major: 4.12/4.3) Mar. 2008 – Feb. 2015
- B.S. in Electrical and Computer Engineering(Summa Cum Laude)
- Received Best Engineering Graduate Student Award

Work and Research Experiences

AITRICS, Seoul, Korea Mar. 2018 – Jul. 2018
- Research Scientist Internship

Vision & Learning Lab., Seoul National University Sep. 2015 – Feb. 2018
- Research Assistant and Master student
- Working on Deep Learning(CNN), under the Supervision of Prof. Gunhee Kim(SNU) and Sungju Hwang(UNIST)
- "SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization", "Taxonomy-Regularized Semantic Deep Convolutional Neural Networks" (See Publications below.)

IR-Link, Seoul, Korea Nov. 2012 – Jul. 2014
- Software Engineer (As alternative military service)
- Mobile Web Application Development / Windows Application Development (See Skills below.)

ITWell, Seoul, Korea Sep. 2011 – Oct. 2012
- Software Engineer (As alternative military service)
- Windows CE Application Development

Cyber-Physical Systems Lab., Seoul National University Jan. 2011 – Sep. 2011
- Undergraduate Researcher on Robotics, Computer Vision, under the Supervision of Prof. Songhwai Oh
- "Actionable Topological Mapping for Navigation Using Nearby Objects" (See Publications below.)

Publications

International Conferences

- **Juyong Kim**, Y. Park, G. Kim, S. Hwang, "***SplitNet*: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization**", in *International Conference on Machine Learning (ICML)*, Aug. 2017.

- W. Goo, **Juyong Kim**, G. Kim, S. Hwang, "**Taxonomy-Regularized Semantic Deep Convolutional Neural Networks**", in *European Conference on Computer Vision (ECCV)*, Oct. 2016.

- J. Kim, **Juyong Kim**, S. You, Y. Oh, and S. Oh, "**Actionable Topological Mapping for Navigation Using Nearby Objects**," in *Proc. of the IEEE International Conference on Automation Science and Engineering (CASE),* Aug. 2012.

Honors and Awards

ILJU Overseas Ph.D. Scholarship Aug. 2018 – Current
- Supporting outstanding PhD students studying abroad.

Hyundai Motor Chung Mong-Goo Scholarship Mar. 2016 – Feb. 2018
- Full tuition & fees during my Master's degree program.

NVIDIA Deep Learning Contest 2016(Korea) Oct. 2016
- 2nd place in Free Topic.

Silver Prize in 25th Global Software Contest Exhibit Dec. 2013
- Hosted by Ministry of Science ICT and Future Planning, Korea.
- Mobile Voting Service (MVS - Korean) (Certificate)

National Science and Engineering Scholarship Mar. 2008 – Feb. 2015
• Full tuition & fees during my college life, Funded by Korea Student Aid Foundation.

Korea Physics Olympiad Dec. 2007
• Silver Medal

Research Interests

• Machine Learning, Deep Learning Architecture(especially in CNN), Computer Vision, Large-scale Visual Recognition, AI, Robotics

Teaching Experiences & Extracurricular Activities

Teaching Assistant, Seoul National University 1st semester, 2016
• M1522.001000 Computer Vision

Tutor, Seoul National University 1st semester, 2010
• Selected as a Physics tutor

Skills

Relevant Coursework

• 420.314 Introduction to Random Variables Processes
• 420.211 Programming Methodology
• 420.310 Fundamentals of Control Engineering
• 446.345 Introduction to Robot Engineering
• 420.405 Design Project for Electrical Devices & Systems
• 430.457 Introduction to Intelligent Systems
• 430.659 Topics in Computer and VLSI(Machine Learning)
• 4190.681A Genetic Algorithms
• 4190.678 Natural Language Processing
• 420.216 Linear Algebra for Electrical Systems
• 420.327 Data Structures and Algorithms
• 420.456 Advanced Control Techniques
• 4190.408 Artificial Intelligence
• 430.714 Estimation Theory
• 430.711A Introduction to Computer Vision
• 406.563 Convex Optimization
• M1522.001300 Probabilistic Graphical Models

Programming Language/Library

• C++, Java, Python, C#, MATLAB, Mathematica, SQL, Verilog.
• TensorFlow, Caffe, Theano, OpenCV, MFC, Web development(w. Spring Framework), .Net Application, HTK Speech Recognition Toolkit, Android, etc.

(Last update: 02/22/2019)