KATSUNORI OHNISHI

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Work Experience (full-time)

DeNA Co., Ltd.

Oct. 2017 - Present

Computer Vision / Machine Learning engineer

Education

M.S. in Information Science and Technology, The University of Tokyo

Apr. 2015 - Sep. 2017

Theme: Video understanding and its application

B.S. in Mechano-Infomatics, The University of Tokyo

Apr. 2011 - Mar. 2015

Thesis: Robust Ego-Activities Detection of Daily Living in Diversity Environment with a Wrist-mounted Camera (Prof. T. Harada)

Publications

[1] **Katsunori Ohnishi***, Shohei Yamamoto*, Yoshitaka Ushiku, and Tatsuya Harada "Hierarchical Video Generation from Orthogonal Information: Optical Flow and Texture ," AAAI, 2018. (oral presentation, acceptance rate=10.9%)

[2] **Katsunori Ohnishi**, Atsushi Kanehira, Asako Kanezaki, and Tatsuya Harada, "Recognizing Activities of Daily Living with a Wrist-mounted Camera," CVPR, 2016. (spotlight presentation, acceptance rate=9.7%)

[3] **Katsunori Ohnishi**, Masatoshi Hidaka, and Tatsuya Harada, "Improved Dense Trajectory with Cross Streams," ACMMM, 2016. (acceptance rate=30%)

[4] Andrew Shin, **Katsunori Ohnishi**, and Tatsuya Harada, "Beyond Caption to Narrative: Video Captioning with Multiple Sentences," ICIP, 2016.

[5] Takuya Yoshioka, **Katsunori Ohnishi**, Fuming Fang, and Tomohiro Nakatani, "Noise Robust Speech Recognition using Recent Developments in Neural Networks for Computer Vision," ICASSP, 2016.

Research Experiences

Student　　　　　　　　　　　　　　　**April. 2014 - Sep. 2017**

The University of Tokyo: under the supervision of Prof. Tatsuya Harada

Theme: Egocentric vision, action recognition, large-scale object recognition, movie description

Visiting Student　　　　　　　　　　　**May. 2016 - Aug. 2016**

Johns Hopkins University: working with Prof. Austin Reiter

Theme: Deep representations for 3D object recognition

Research Intern   **Aug. 2015**
NTT Corporation: NTT Communication Science Laboratories, Kyoto

> Theme: Speech recognition with Network in Network, under the supervision of Dr. Tatsuya Yoshioka

Work Experiences (Part-time)

Algorithm Developer in Medical Image Processing   Jun. 2015 - Apr. 2016
Ziosoft, Inc., Tokyo

> Topic: Automatic recognition from MR image and CT image

Mentor, research seminar for undergraduate   Oct. 2015 - Jan. 2016
The University of Tokyo

> Theme: Image detection with Convolutional Neural Networks

Teaching Assistant, "Real world recognition"   Oct. 2015
The University of Tokyo

Preparatory School Teacher   Apr. 2012 - Mar. 2014
Sundai Preparatory School, Tokyo

> Personal Teaching: Mathematic, Physics, and Chemistry for junior high school and high school student

Funding sources

[1] Japan Public-Private Partnership Student Study Abroad Program (Full-funded scholarship for visiting research)   May. 2016 - Aug. 2016

Invited Talks

[1] **Katsunori Ohnishi**, Atsushi Kanehira, Asako Kanezaki, and Tatsuya Harada, "Recognizing Activities of Daily Living with a Wrist-mounted Camera (CVPR 2016)," the 19th Meeting on Image Recognition and Understanding, 2016.

Competitions

[1] ILSVRC 2015 in conjunction with ICCV 2015 (Invited poster)
the *3rd* place in the task 1b: Object detection with additional training data
Masataka Yamaguchi, Qishen Ha, **Katsunori Ohnishi**, Masatoshi Hidaka, Yusuke Mukuta, Tatsuya Harada

Skills

Technical Skills: Python (85%), Matlab (15%)
Embedded Systems: Arduino
Toolkits/Frameworks: Chainer, Caffe, Keras, OpenCV
Interests & Activities: Baseball, Fencing