
KATSUNORI OHNISHI

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Education

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

Apr. 2015 - March. 2017

Theme: Action Recognition, Egocentric Vision

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**, 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%)

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

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

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

[5] Andrew Shin, Masataka Yamaguchi, **Katsunori Ohnishi**, and Tatsuya Harada, "Dense Image Representation with Spatial Pyramid VLAD Coding of CNN for Locally Robust Captioning," arXiv.

Research Experiences

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

Student

April. 2014 - Present

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

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

Work Experiences

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

[2] THUMOS Challenge 2015 in conjunction with CVPR 2015
the 9th place in the task 1: action classification
Katsunori Ohnishi and Tatsuya Harada

Skills

Technical Skills: Matlab (50%), Python (45%), C++ (5%)

Embedded Systems: Arduino

Toolkits/Frameworks: Chainer, Caffe, Keras, OpenCV

Interests & Activities: Baseball, Fencing
