KATSUNORI OHNISHI

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Education

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

Apr. 2015 - Present

Theme: Action Recognition, Egocentric Vision

B.S. in Mechano-Infomatics, 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)

Research Experience

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

Johns hopkins university: working with Prof. Austin Reiter and Prof. Gregory D. Hager

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**

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

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

Publications

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

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

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

[4] **Katsunori Ohnishi**, Masatoshi Hidaka, and Tatsuya Harada, "Improved Dense Trajectory with Cross Streams," arXiv.

[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.

Work Experience

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)   Apr. 2016 - Jul. 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, **<u>Katsunori Ohnishi</u>**, Masatoshi Hidaka,
Yusuke Mukuta, Tatsuya Harada

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

Skills

Technical Skills: Matlab (50%), Python (45%), C++ (5%)
Embedded Systems: Arduino
Toolkits/Frameworks: Chainer, Caffe, OpenCV
Interests & Activities: Baseball, Fencing