Chun-Chih 'Jerry' Teng

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Education:

B.S. in Electrical Engineering and Computer Science (EECS),
National Chiao Tung University (NCTU), Taiwan.   2013 -present

Research Interest and Related Courses:

Software Development, Data Structure / Algorithm / Database System / Operating System / Computer Network / Cloud Computing / Computer Organization / Graph Theory
Computer Vision and AI, Robotics Vision / Computer Graphics / Digital Image Processing / Signal and System / Pattern Recognition / Machine Learning

Research Experience:

Assistive Robotics Group, 2016-present, Advisor: Prof. Hsueh-Cheng 'Nick' Wang
Project: Deep Convolution Neural Network for Text Spotting with Synthesized Rendered and Robot Harvest Training Data
Deep CNN has shown promising progress on object recognition and text spotting. Previous work used synthesized computer-graphic rendered training data to minimized labor-intensive labeling. Nevertheless, rendered data may not well cover all variations such motion blur or perspective Transform observed from moving robots. My work is creating training samples from both computer-graphic renderer and a mobile robot traversing systematically to obtain observations. I then train various CNN models to improve the accuracy of text recognition. The experiment results show that the models trained from rendered data are reasonable accurate, but robot-harvest data obtained higher accuracy.

Publications:

Tzu-Kuan Chuang, **Chun-Chih Teng**, Sudeep Pillai, Chen-Hao Hung, Yi-Wei Huang, Chang-Yi Kuo, Teng-Yok Lee, Liam Paull, John Lenoard and Hsueh-Cheng Wang. Enable End-to-End Deep CNN Signage-Centric Text Spotting using Robot-Harvest Data. Submitted to IROS 2017.

Professional Skills:

Programming Language: Java / C / C++ / Python / PHP / MySQL

Web: HTML / CSS / NodeJS

System and Distributed Computing: Unix / Andriod / ROS / Hadoop

Computer Vision: OpenCV / Caffe / CUDA

Honor:

The 3rd award of Taiwan Mei-Chu Hackthon Microsoft Group in 2015

Our project is a rescue platform to consolidate all relevant information on the same place to reduce the resource waste. I used the PHP/MySQL to connect the web page and information storage, and this feature can make sure the consolidation of data.

Professional Experience and Leadership:

National Chiao Tung University Student Union, Vice-President, 2015-2016

- ✓ Coordinate with the member of student union and hold several big events to students
- ✓ As representative of students, participate several university meeting to fight for the right of students

AIESEC NCTU Local Committee, Vice-President, 2014-2015

Initiated a digital mentor system to engage more than 300 seniors with current members in club, and this system support club very well and is still used in every year.