Wen-tao Zhang (Toby)

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Education

Peking University   *Sep. 2013 - Present*
B.S. in Computer Science

  – Overall GPA: 3.52/4.0   Major GPA: 3.62/4.0

National Engineering Laboratory for Video Technology (NELVT), Video Coding Technology Lab
Advisor: Siwei Ma

Experience

Students' Association of College of EECS, Peking Univ.   *Sept. 2013 - June 2014*
Member of Acadamic Dept.
Organized several lectures about overseas studying and postgraduate recommendation

Video Coding Technology Lab, Peking Univ.   *Apr. 2015 - Present*
Intern
Did research on High Efficiency Video Coding

Zhang Research Group, Computer Systems Lab, Cornell Univ.   *July 2016 - Sept. 2016*
Intern
Did research project about Binarized Neural Network (BNN) Acceleration

Awards, Grants & Honors

International Olympiad in Informatics (IOI) 2013 China Team Selection Competition Ninth Place

The ACM-ICPC Asia Regional Contest Chengdu Site 2013 Silver Medal (Twenty-third Place)

Merit Student of Peking University, 2013 - 2014 Acadamic Year

Tung OOCL Scholarship, 2013 - 2014 Acadamic Year

The ACM-ICPC Asia Regional Contest Mudanjiang Site 2014 Gold Medal (Tenth Place)

Projects

Image Segmentation   *Jun. 2015*
A naive implementation based on Graph-Cut algorithm
https://github.com/nsknojj/graph-cut-based-on-maxflow

Log File System   *Jan. 2016*
Designed a client caching mechanism for Hadoop Distributed File System (HDFS)
https://github.com/nsknojj/LogFileSystem

Pedestrian and Car Detection on Dataset PKUSVD   *Nov. 2015 - Dec. 2015*
Neural network was based on Fast-RCNN, Proposal algorithm: ACF & EdgeBox
https://github.com/nsknojj/fast-rcnn-final

Birdway   *Oct. 2015 - Dec. 2015*
A collaborative editing plugin for Atom

Video coding based on object features   *June 2015 - May 2016*

Built an application that can search for a similar frame in a video using extracted features

Big File Upload plugin on Jupyter Notebook   *April 2016 - June 2016*

Add a plugin to upload big file on Jupyter Notebook

https://github.com/nsknojj/notebook/tree/upload

Binarized Neural Network (BNN) acceleration project   *July 2016 - Sept. 2016*

Test the baseline of BNN, and implemented BNN with Halide, a language for parallelization and optimization

https://github.com/nsknojj/bnn-halide (private)

STRENGTHS

Computer Languages: C++, Python, JAVA, Shell Script

Hobbies and Interests: table tennis, billiards, music, movie

PUBLICATIONS

A PHOTO TAKEN AT BROOKLYN BRIDGE