Zijian Liu | Curriculum Vitae

Personal Information

- Blog
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I graduated from XiangTan University (China) in 2016. Now, I work for HuaWei(ShenZhen). In the past three years, I have gained plenty of experiences about the GNU/Linux platform and image processing. I also have good habits in coding style. I would like to share my ideas with others on my own technological blog and github. I am a self-driven person and learn by myself. I am good at Python, C and other programming language and would like to learn new technology about computer science.

Career Appled For

R&D Engineer, Full time employee

Internship Experience

Software engineer, Alibaba Yun Inc internship in 2015.07 – 2015.08

Honors & Awards

Meritorious Winner of Mathematical Contest in Modeling(MCM) 2014

Class A scholarship of XiangTan University in 2013

The ability in Programming

Programming Lanuage: Python, Java, C language, MatLab

Familiar Domain: Flask, MySQL, JavaScript, HTML,Spring, Machine Learning, Linux system research, OpenCV, sk-learn

Projects

- **Face detection**

  In this project, I build a face detection system which base on AdaBoost algorithm. There are a lots of weak classifier in a detector sub-window. The essential ideas in the detection system are integral image, AdaBoost and cascade. With the training set from MIT and CMU, the original method which raise by Viola cost a lot of time in the process of training. After optimalization by me, the time of training was shorten obviously and the results of face detection is also good enough from comparision. All project related program are written in Python. If you are more interesting in the detail of the implementation, there have a lots of documents which is written by me in github.

- **Implement a BP neural network in C language**

  Normally, researchers learn neural network by Matlab neural network toolbox. However, matlab software is too large to be transplated into others platform and result in slowing network training. Therefore, basing on Matlab Toolbox neural network can not achieve industrialization. The project aimed to build a BP neural network with highly portable C-language program, we used a digital neural network to predict which signal we have inputed into the system. The inputed signal is only human-readable and machine does not have a general sense. The neural network we implemented can do a good job in system identification.
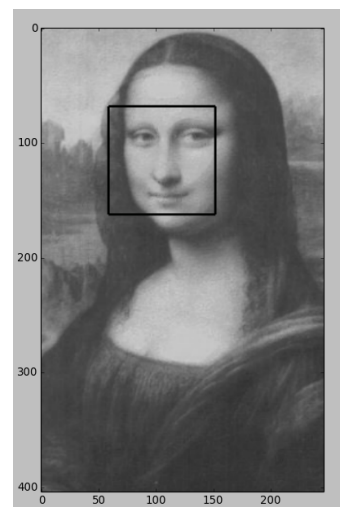

Figure: Demo for my face detection system. The rectangle shown the result where is a face.