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Han Yue

Master Degree

I graduated at University of Electronic Science and Technology of China. I major in Computational Mathematics.

My academic interests include Pattern Recognition, Machine Learning (especially, Deep Learning), Image Processing and Computer Graphics.

I work on both Windows and Ubuntu environments, and work with C++ and Python mostly.

Currently, I'm working on reducing the computation costs of deep neural networks while increasing their performances on image classification and detection tasks.

Education

2015 — 2018, University of Electronic Science and Technology of China, Chengdu, China

Master Degree in Computational Mathematics

2011 — 2015, University of Electronic Science and Technology of China, Chengdu, China

Bachelor's Degree in Applied Mathematics

Publications

- **H. Yue**, L. Wu, D. A. Wu, J. Xie. *Neuron Hierarchical Networks* [C] (submitted). NIPS, Montreal, 2018.
- **H. Yue**, L. Wu, D. A. Wu, Y. B. Lu, X. L. Zhao. *Dynamic Network Pruning via Smooth Initialization*[J] (submitted). Pattern Recognition, 2018.
- R. B. He, D. A. Wu, L. Wu, **H. Yue**. *Application of Particle Filter Method in Sparsity Subspace in Target Tracking*[J] (translated title). Computer Engineering and Design, 2016, 37(11):3080-3085.

Book

Mastering OpenCV Android Application Programming (Official Chinese Translation)

- The official Chinese edition, published by the Publishing House of Electronics Industry (ISBN 978-7-121-28823-4).
- Book link: jd.com

Patent

Adapted TLD Based Multi-target Tracking Method (translated title)

- An real-time algorithm for multiple targets tracking in video, inspired by TLD which only tracks one target (CN 106709938 A).

I Mostly Code In:

- C/C++
- Python
- Java
- PHP
- Matlab

Languages

- English (CET 6)
- Chinese (Native)

Honors and Awards

Excellent Graduation Thesis Award

- My Bachelor's thesis, *Research on Machine Vision Based Moving Object Tracking* (translated title), was granted the Excellent Graduation Thesis Award.

Fields Of Interest

- Pattern Recognition
- Machine Learning
- Deep Learning
- Computer Graphics
- Image Processing
- Android Development

Project Experience

2016, Research on Automatic Measurement and Classification of Traffic Flow Based on Intelligent Transportation

- Granted by China Railway Eryuan Engineering Group Co.,Ltd.
- Automatically detects, classifies and counts different kinds of vehicles in traffic, in real-time.
- The program runs on a Firefly RK3288 Development Board, and the entire tool kit has its own power supply for easy deployment.
- Implemented in C++.

2016, Deep Learning Based Vehicle Classification System

- Granted by Innovation and Entrepreneurship (Student) Project, School of Mathematical Sciences, UESTC.
- A CNN based algorithm for vehicle classification in real-time, written in C++.

Selected Open Source Projects

WPCrawler (44 Stars, 98 Forks)

- A web crawler for single WordPress site, written in Java.

MOAAP (37 Stars, 17 Forks)

- Updated source codes for book Mastering OpenCV Android Application Programming and it's Chinese edition.

textRotCorrect (22 Stars, 8 Forks)

- A DFT-based algorithm for text image rotation correction, written in C++.

Open Source Contributions

OpenCV(1 commit)

- Open Source Computer Vision Library.

DCGAN-tensorflow(11 commits)

- A tensorflow implementation of "Deep Convolutional Generative Adversarial Networks".

CycleGAN-TensorFlow(1 commit)

- An implementation of CycleGan using TensorFlow.

Others

At our lab

- I have built a local Git server for our lab at National Wireless Communication Co-working and Innovation Space, UESTC.
- I have written a framework of light-weight C++ CNN library for programming practice purpose for other students at our lab, which is available at <https://github.com/UESTC-SL/LinNet>.

At college

- Training Team Member at ABU Robocon Team of UESTC, when I learnt ARM programming on STM32 chips.