Wang Jianze

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EDUCATION

National University of Singapore   Aug 2019 - Jul 2020

Electrical Engineering Master Department of Electrical and Computer Engineering   Singapore

- GPA: 4.25/5.00
- Related courses: Visual Computing, Pattern Recognition, Computer Control System, Neural Network, Multiprocessor System

University of Electronic Science and Technology of China   Sep 2015 - Jun 2019

Electronic Information Science and Technology Bachelor School of Physics   Chengdu

- GPA: 3.84/4.00
- Hornor/Awards: People's First Class Scholarship (2015-2017), People's Second Class Scholarship (2018), University's Top 100 Excellent Volunteers (2016)
- Related course: C programming, Numerical calculation method, Probability Theory and Mathematical Statistics, Calculus, Electromagnetic field and electromagnetic wave
- Programming: C/C++ (basic), MATLAB (expert), VHDL (basic), Python (expert)
- Language: CET-4: 580, CET-6: 538, IELTS: 7.0

PROFESSIONAL EXPERIENCE

Implementation of a Spiking Neural Network for MNIST Handwritten Digit Recognition on a GPU Accelerator   Sep 2019 - Apr 2020

Using spiking neural network and convolutional neural network topology, based on GPU accelerator, complete the encoding and recognition of pictures, and use support vector machine (SVM) to realize MNIST handwritten digit recognition neural network

Panoramic Image   Sep 2019 - Oct 2019

Base on traditional image algorithm, using SIFT Features and Descriptors, Homography, and RANSAC, realize automatic panoramic stitching of disordered multiple pictures

Depth from Video   Oct 2019 - Nov 2019

Based on Markov random field and multi-label image segmentation, image noise elimination is realized, and based on binocular depth estimation method, video multi-frame optimization is realized to complete video image depth estimation

Comparison of classifiers based on linear regression, total error rate, and Fischer linear discrimination   Mar 2020 - Apr 2020

Using the MNIST data set, three methods of linear regression, total error rate and Fischer linear discrimination are used to compare the classifiers using different methods

LEADERSHIP EXPERIENCE

Siyuan Club   Mar 2017 - Jun 2020

Initiator

Established the first ideological and political society of the School of Physics with other party members and classmates of the School of Physics party branch as the initiator, responsible for writing the articles of association, and acting as the first president