

HAO WANG

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EDUCATION

Georgia Institute of Technology, Atlanta

August 2019 - Present

Master in Electrical and Computer Engineering

Tianjin University, Tianjin China

September 2015 - June 2019

Bachelor of Engineering, Automation.

Overall GPA: 3.58(on a 4.0 scale)

PROJECTS

Intelligent Garbage Identification and Sorting — Tianjin University

2018

The project aims at designing a system to sort garbage by computer vision. As a classification problem, a unique garbage image data which contain thousands of labeled image set was built and a CNN is implemented.

Complex Text Detection on Garbage Image Data Set — Tianjin University

2019

Implement and improve Pixel-Link CNN which combines semantic segmentation and object detection on garbage image text data set. Prepare the data, improved Pixel-Link, test network and hyper-parameter tuning.

Combination of Image Compression and Contrast Enhancement in Aerospace Application — Georgia Institute of Technology

2019

Put forward a hybrid approach to improve the visual quality of images from satellites. Three methods in image processing are implemented, improved and combined in this approach. DWT-SVD, combined Huffman coding and blocking effect reduction were implemented to improve traditional methods.

Estimation, Comparison and Analysis of Yellow Taxi in NYC — Georgia Institute of Technology

2019

Around 8 gigabyte data was used to train a machine learning model to generate the taxi fare in NYC by pick up location and destination. An interactive user web page was built which can show the map of NYC by Google map and the price could be compute back-end. Several experiments were made to analysis and compare the price of Lyft and yellow taxi.

TECHNICAL SKILLS

Programming

C++, Python, JavaScript, Java, C, Assembly language on microprocessors

Theories

Image processing, Machine learning, Control systems, Advanced mathematics

Software&API

Matlab, Tableau, Gephi, Unity, OpenGL, Latex, Hadoop

SCHOLARSHIPS

Merit student scholarships(top 15% in department)

2016

Merit student scholarships(top 15% in department)

2017

Merit student scholarships(top 15% in department)

2018