Yingpeng Ma

GPA: 2.3(in Modifizierten Bayerischen Formel), IELTS:7.0, GRE:319+3.0

Programming Skills: Python, C/C++, JAVA, MATLAB Software Platforms: Spyder3, VS, Pycharm, Tensorflow

GAPYEAR

My Plan

Chengdu, China

Sep. 2019 - Present

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• After the graduate, I was doing some part jobs as an independent programmer. I've completed several tasks including ML and communication systems. I'm currently looking for an intern job as a communication engineer for Mar. to Aug. At the same time, I'm preparing for a Master's Degree Program studying for Winter Semester. I'd like to take part in some Communication Engineering and Signal Processing research in further, which means I might pursue a higher degree as a Doctoral after Master's studying.

EDUCATION

University of Electronic Science and Technology of China (UESTC)

Chengdu, China

Bachelor of Engineering, Communication Engineering

Sep. 2015 - Jul. 2019

The High School Attached to Northwest Normal University (NWNU High School)

Secondary High School

Lanzhou, China Sep. 2012 - Jul. 2015

Lanzhou No.7 Middle School

During the Gap Year and after

Lanzhou, China

Junior High School

Sep. 2009 - Jul. 2012

Tuanjie New Village Elementary School

Lanzhou, China

 $Elementary\ School$

Sep. 2003 - Jul. 2009

RESEARCH EXPERIENCE & INTERSHIP

Data Prediction Using CEEMD and LSSVM

Practice Project: github.com/ingingX/FullVision-CEEMD-LSSVM

Oct. 2019

- o Python Pandas Used Python lib, Pandas, converting HTML data to EXCEL sheets for further processing.
- CEEMD & LSSVM Applied CEEMD (Complementary Ensemble Empirical Mode Decomposition) decomposite original signal into multiple IMF components, then predicted longer sequence adopting LSSVM (Least Squares Support Vector Machine) method.

Simulation of MSK System with Doppler Channel and Performance Improvement

Practice Project: github.com/ingingX/MSK-Doppler

Sep. 2019

• Simulink Built MSK (Minimum Shift Keying) modulation and demodulation systems with adjustable doppler offset as noise, then added in channel estimating system improving SNR of received signals.

Research of Transform Coding Based on Image Features

UESTC, Chengdu

Undergraduate Thesis, Supervised by Prof. Shuyuan Zhu

Dec. 2018 - Jun. 2019

- $\circ\,$ Task Designed a new transform coding method substituting DCT in the JPEG system.
- MATLAB & OpenCV Utilizing MATLAB, a fast and RAM-friendly JPEG en-decoding system was built. Improved Discrete Cosine Transform algorithm by merging image features into encoding processing. The whole project was partially built by MATLAB and partially by OpenCV.

Image Saliency Detection with Bit-map and Bit-place Slicing

UESTC, Chengdu Sep. 2017 - Jun. 2019

Team Leader, Supervised by Prof. Bing Zeng, IEEE Fellow

- Method Proposed innovative approaches based on bitmap and bit-plane slicing to detect the salient regions of static digital images. Without DL or ML, it resulted in excellent when comparing Runtime, Memory Usage and MAE curves with other literature.
- Award & Achievement Part of the project got a grade of Pass (92/100) for the National College Students' Innovation and Entrepreneurship Training Program

Image Transmission through a 3.5 mm Audio Cable

UESTC, Chengdu

Team Leader, Supervised by Prof. Xiaofeng Li

Nov. 2017 - Dec. 2017

- Task Established a system transferring pictures between two computers (PCs) through a 3.5 mm audio cable (AUX).
- MATLAB & Simulink Designed mod & demod system using DQPSK and coded the whole system on MATLAB and Simulink platforms.

Datang Telecom Technology

Chengdu, China

Intership

Jul. 2017 - Sep. 2017

• Engineer Assistant Initialized the base station settings and designed and simulated the switching algorithm (Dijkstra) to reduce network congestion.

STUDY ABROAD, VOLUNTEER & AWARDS

- Exchange study in the National University of Singapore, 2016
 - Completed courses in Engineering Management, won the Second Place with research on the business model of Uber.
- Contestant Assistant/Volunteer, China College Students Entrepreneurship Competition, 2016
- Outstanding Individual in Social Practices Scholarship of UESTC, 2016
- Third Place, Mathematical Competition of UESTC, 2016