Yingpeng Ma

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**EDUCATION**

**B. Eng, Communication and Information Engineering**  09/2015 – 07/2019

University of Electronic Science and Technology (UESTC), School of Information & Communication Engineering

* *GPA:* 3.46/4 *IETLS*:7.0 *GRE*:319+3.0
* *Relevant Module:* Calculus, Linear Algebra, Probability & Mathematical Statistics, Software Technique, Digital Circuit

Signals & Systems, Mobile Communication Systems, Principle of Communications, Information Theory

**RESEARCH EXPERIENCE & INTERSHIP**

**Practice Project** 10/2019

*Prediction Based on CEEMD and LSSVM*

* 1
* 2

**Practice Project** 10/2019

*Simulation of an MSK System with Doppler Shifting Channel and Its Performance Improvement*

* 1
* 2

**Practice Project** 09/2019

*Converting HTML to EXCEL Content Using Python Pandas*

* 1
* 2

**Undergraduate Thesis** 03/2019 – 07/2019

*Research of Transform Coding Based on Image Feature（Supervisor: Shuyuan Zhu）*

* 1
* 2

**Team leader** 09/2017 – 07/2019

*Image Saliency Detection with Bit-map（Supervisor: Prof. Bing Zeng, IEEE Fellow）*

* Proposed an innovative bitmap-based approach to detect the salient regions of a static digital image
* We were using information theoretic model without deep learning and got excellent results
* With fast Runtime and little Memory Usage, we compared the generated evaluation curves with other literatures

**Team member**12/2017 – 03/2018

*Saliency Detection Model Design with Bit-plane Slicing (Supervisor: Prof. Chang Wu)*

* Implemented the algorithm using bit-place slicing to detect the saliency of the static digital image
* Generated evaluation curves with other reported methods and ours, showing that our method is in good performance
* Got a grade of *Pass (92/100)* for the *National College Students' Innovation and Entrepreneurship Training Program*

**Team leader** 11/2017 – 12/2017

*Image Transmission through a 3.5 mm Audio Cable (Supervisor: Prof. Xiaofeng Li)*

* Established an approach system transferring pictures between two computers through a 3.5 mm audio cable (AUX)
* Designed and coded modulating and demodulating methods and debugged the whole system

**Internship, Datang Telecom Technology, Chengdu, China** 08/2017

* Initialized settings in the base station and designed the switching algorithm (Dijkstra) to reduce the network congestion

**EXTRA CURRICULAR ACHIEVEMENT & AWARDS**

Contestant Assistant, China College Students Entrepreneurship Competition 10/2016

Exchange study in the National University of Singapore 08/2016

* Completed courses in *Engineering Management*, won the Second Place with research on the business model of Uber.

Outstanding Individual in Social Practices Scholarship of UESTC, 2016

Third Place, Mathematical Competition of UESTC, 2016

**TECHNICAL STRENGTHS**

* Programming Languages: C/C++, Python, Java
* Software Platforms: MATLAB, Visual Studio, Spyder3, Android Studio