
Yingpeng Ma

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EDUCATION

B. Eng, Communication and Information Engineering

09/2015 – Present

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

- GPA: 3.46/4 TOEFL: 83 GRE:319+3.0
- *Relevant Module:* Calculus, Linear Algebra, Probability & Mathematical Statistics, Foundations of Electronic Circuits, Basis of Software Technique Signals & Systems, Mobile Communication Systems, Principle of Communications, Elements of Information Theory, Multimedia Communications

INTERNSHIP/RESEARCH EXPERIENCE

Team leader

09/2017 – Present

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

- Determining salient regions of a static image using an information theoretic model (not deep learning)
- Comparing the generated evaluation curves with other literatures
- Studying the related work involving saliency detection methods
- Proposing an innovative bitmap-based approach to detect the saliency of the static image
- Optimizing the running time and spatial complexity of the algorithm by means of removing the redundant code

Team member

12/2017 – 03/2018

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

- Developed a method using bit-plane slicing and compared the generated evaluation curves with other reported methods
- Implemented the algorithm to detect the saliency of the static image
- Got a grade of *Pass* 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

- Understood the method of compressing and caching a digital static picture
- Understood the method of modulating and demodulating signals
- Established an approach transferring pictures between two computers through a 3.5 mm audio cable
- Designed the primary data structures and completed most of coding work

Internship, Datang Telecom Technology, Chengdu, China

08/2017

- Initialized the signals in the base station
- Completed the design of the switching algorithm to reduce the network congestion

Internship, Real Estate Salesperson (ERA) Ltd., Singapore

08/2016

- Conducted a survey of Singapore's real estate market

EXTRA CURRICULAR ACHIEVEMENT & AWARDS

Contestant Assistant, China College Students Entrepreneurship Competition

10/2016

Exchange study in the National University of Singapore

08/2016

- Won the Second Place with the presentation of the research on investigating the working processes of Uber drivers
- Completed courses in *Engineering Management* and conducted 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: MATLAB, Visual Studio, PyCharm, Android Studio
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