Yingpeng Ma

http://ingingX.github.io/

Email : yingpengma@gmail.com
Mobile : +86-151-0848-2982

Education

- **University of Electronic Science and Technology of China (UESTC)** Chengdu, China
  Bachelor of Communication Engineering *Sep. 2015 - Jul. 2019*
  - *GPA: 3.41/4.00 IELTS:7.0 GRE:319+3.0*
  - *Relevant Module: Calculus, Linear Algebra, Probability and Mathematical Statistics, Software Technique, Digital Circuits, Signals and Systems, Mobile Communication Systems, Principle of Communications, Information Theory*

Research Experience & Intership

- **Data Prediction Using CEEMD and LSSVM**
  Practice Project *Oct. 2019*
  - **Tensorflow** TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
  - **Apache Beam** Apache Beam is a unified model for defining both batch and streaming data-parallel processing pipelines, as well as a set of language-specific SDKs for constructing pipelines and runners.
- **Simulation of MSK System with Doppler Channel and Performance Improvement**
  Practice Project *Sep. 2019*
  - **Notifications** Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
  - **Nostos** Bulk data processing and injection service from Hadoop to Cassandra and provides a thin REST layer on top for serving offline computed data online.
- **Research of Transform Coding Based on Image Features** UESTC, Chengdu
  Undergraduate Thesis, Supervised by Prof. Shuyuan Zhu *Dec. 2018 - Jun. 2019*
  - **Task** Designed a new transform coding method substituding DCT in JPEG system.
  - **MATLAB & OpenCV** Utilizing MATLAB, a fast and RAM-friendly JPEG en-decoding system was built. After analyzing how DCT working and merging image features, a
- **Image Saliency Detection with Bit-map and Bit-place Slicing** UESTC, Chengdu
  Team Leader, Supervised by Prof. Bing Zeng, IEEE Fellow *Sep. 2017 - Jun. 2019*
  - **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 excellent when comparing Runtime, Memory Usage and MAE curves with other literatures.
  - **Award & Achievement** 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** Establish a system transferring pictures between two computers(PCs) through a 3.5 mm audio cable (AUX).
  - **MATLAB & Simulink** Designed mod & demod syDstem 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 switching algorithm (Dijkstra) to reduce the network congestion.

Extra Curricular Achievement & Awards

- **Contestant Assistant, China College Students Entrepreneurship Competition, 2016**
- **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.
- **Outstanding Individual in Social Practices Scholarship of UESTC, 2016**
- **Third Place, Mathematical Competition of UESTC, 2016**

Programming Skills

- **Languages** C++, Python, Java **Software Platforms** MATLAB, Spyder3, VS