

Peiguang (Sean) Wang

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EDUCATION

Rice University, Houston, TX

12/2018

- Master of Electrical Engineering

Beijing University of Posts and Telecommunications, Beijing, China

07/2017

- Bachelor of Engineering in Telecommunication Engineering
- GPA: 87.3/100

RELEVANT COURSES

C++ Programming Language

Data Structure

Computer Networks

Digital Image Processing

Random Process

Algorithmic Robotics

SKILLS

- Computer: MATLAB, C/C++, Python, Linux, LaTeX, HTML, CSS, Javascript
- Language: Mandarin Chinese

RESEARCH EXPERIENCE

Research and Implementation of a “Query by Humming” Melody Searching System

12/2016 – 06/2017

Instructor: Jiangjun Li, Beijing University of Posts and Telecommunications, Beijing, China

- Implemented a QBH system using string matching and DTW algorithms methods, comparing and analyzing results of the two methods
- Experimented accuracy is same as Putri R A's work (ICEEI, IEEE, 2015)
- Ranked 1% as graduation thesis

Facial Recognition with Deep Network

05/2016 – 08/2016

Instructor: Thomas Fang Zheng, Tsinghua University, Beijing, China

- Implemented facial recognition methods in a demo with *Caffe* deep learning framework
- Researched to find proper facial recognition method for mobile environment

SELECTED COURSE PROJECTS

Image Restoration

- Programmed in MATLAB and use different methods, such as wiener filtering, adaptive filtering, inverse filtering to enhance the noise-affected images

Simulation of 3G WCDMA Communication System

- Simulated the 3G WCDMA Communication System, using MATLAB, including source coding, modulation and demodulation, multipath channel and channel coding
- Compared and analyzed results of different methods of channel coding

Simulation of DTMF telecommunication signaling system

- Simulated DTMF telecommunication signaling system programing in MATLAB with Goertzel algorithm

Basic Digital Image processing

- Implemented user interface with C++ based on MFC framework
- Implemented simple image filters such as sharpen, blur, mosaic, black and white

HONORS & AWARDS

Honorable Mention, American Mathematical Contest in Modeling (MCM)

12/2014 – 02/2015

Second prize in Chinese RoboCup Competition

06/2014 – 08/2014

- Programmed robot in Python to identify and sort cubes of different colors using carema
- Worked in a two-person team and won Second prize in Camera Group, Chinese RoboCup Competition

EXTRACURRICULAR ACTIVITIES

Teaching Assistant of “Linear Algebra” in University

12/2016 – 06/2017

Translation Volunteer For “Linux China” Website

09/2014 – 01/2015