Hancheng Ye

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EDUCATION

Fudan University *Sep 2016 - Jun 2020*

Junior Student Biomedical Engineering The School of Information Science and Technology *Shanghai*

- GPA: 3.75 / 4.0 (Top 5%)
- Honors/Awards: Huawei Scholarship (2016-2017), Fudan University Outstanding Undergraduate Second-class Scholarship (2017-2018)
- Relevant Coursework: Information Theory, Digital Signal Processing, Automatic Control Theory, Data Structure and Algorithm, High Frequency and Radio Frequency Electronics, Electronic system design, etc.

RESEARCH EXPERIENCE

Implementation of JPEG2000 Technology *Nov 2018 - Jan 2019*

Responsible for the main coding system , Course of Information Theory *Fudan University, Shanghai*

- Collected existing resources to establish the EBCOT coding system of JPEG2000, which was the crux of the matter.
- Modified the Spanish version of C++ code into MATLAB version to integrate the EBCOT part into the coding system.
- Utilized the Huffman coding method to compress the encoded data stream.
- Successfully achieved the compression and reconstruction of JPEG2000 technology and the image compression rate reached 0.17.

Deep Learning in Voiceprint Recognition *Oct 2018 - Dec 2018*

Member of the team , Course of Digital Signal Processing *Fudan University, Shanghai*

- Collected the corpus online for the data set of deep learning and recorded individual sound as the object to be identified.
- Utilized the model of the filter to descript the machinism of LSTM neuro network.
- Our work performed the best (0.94) in terms of the classification accuracy for three targets.

Design of Thermal Protective Clothing *Sep 2018 - Sep 2018*

Leader , Contemporary Undergraduate Mathematical Contest in Modeling *Fudan University, Shanghai*

- Applied raw data correction and Fourier Equation to establish mathematical model using MATLAB, and deveolped an analogue simulation to the existing infrastructure.
- Steamlined the solution to prediction of the temperature distribution of the clothing.

Evaluation of Liver Fibrosis *Nov 2018 - Present*

Member of the team , Laboratory of Jinhua Yu *Fudan University, Shanghai*

- Preprocessed the data set, including labeling, targeting and screening images.
- Utilized the machine learning and neuro network to train the classification accruacy by using Python.
- The project is still continue.

MISCELLANEOUS

- **Skills:** MATLAB (Proficient), Python (Basic), Visual Stdio, SPSS, Latex (Proficient), Word (Proficient), PowerPoint (Proficient)
- **Certifications:** Machine Learning, Deep Learning
- **Languages:** English (Fluent), Chinese (Native)
- **Activities:** School Taiji Association (member), College Publicity Center Copywriter
- **Interests:** Table tennis, Travel, Jogging