Shaozhe Hao

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EDUCATION

Huazhong University of Science and Technology   Wuhan, Hubei, CN
B.S. in Automation | School of Artificial Intelligence and Automation   *Sep. 2017 - Now*
GPA: **3.98**/4.0, Avg. Score: **92.9**/100, Rank: **2**/152

RESEARCH INTEREST

What attracts me is the application of machine learning in biological identification, especially EEG signals, and I am also interested in computer vision and image processing, which I major in.

PROJECTS

Vizum Intership   Beijing, CN
Development Intern | Advisor: Xiaojian Dong   *Jan. 2020 - Feb. 2020*

- Car License Plate Precise Detection: developed a system dependently, which can detect car license plates sharply, regardless of angle, lighting, cover or other noises and draw the line along the contour of plates. Used YOLO, a deep learning network for Object Detection, and traditional image processing methods for sharp contour extraction.

Innovation Research Project   Wuhan, Hubei, CN
Research Assistant | Mentor: Dongrui Wu   *Mar. 2019 - Now*

- This project entitled "EEG-based user authentication and identification methods" is expected to establish a user authentication and identification method based on electroencephalogram (EEG) data.
- Achieved signal acquisition, preprocessing, feature extraction, neural network algorithm implementation and accuracy rate analysis. Applied low pass filter and Common Spatial Pattern to extract frequency domain features of raw EEG signals and used KNN and CNN algorithm to classify different trials into specific subjects.
- For single time domain, the accuracy is nearly **98%**.

Deloitte Digital Innovation Camp   Wuhan, Hubei, CN
Commercial Match   *Aug. 2019*

- Developed an analysis system to portrait e-commerce company profiles. Based on the algorithm via Matlab, our system can rate a company from 5 aspects: freight, popularity, price, diversity, and overall score.
- Respectively designed the different algorithm for each aspect after processing the raw data of 6 e-commerce companies from Internet. The eventual outcome will be shown as polygon scoring figures of different companies.

C Language Curriculum Design   Wuhan, Hubei, CN
Curriculum Design   *Sep. 2018 - Nov. 2018*

- Completed a project named "information inquiry system for 2018 World Cup" with my teammate, which was developed by C Language on Borland C++. Achieved lots of functions: to register and login, information searching for teams, players and games, news reports and video playing on the user side; and user administrating, information revising and news uploading on the administrator side.

HONORS & AWARDS

- UCLA Cross-disciplinary Scholars in Science and Technology Scholarship *2020*
- National Scholarship of China (**2%**) *2018, 2019*
- Special A of Huazhong University of Science and Technology (**5%**) *2018*
- Scholarship for Academic Performance *2018*

CERTIFICATES

- TOEFL **104**
- MCM/ICM S award
- Computer rank examination - level 3 \level 2
- Coursera: machine learning \python data structures

EXTRA-CURRICULAR

Oxford Summer School *Aug. 2018*

I participated in the Oriel College of Oxford University Summer Exchange Program. I took two courses of Artificial Intelligence and Numerical Analysis at Oxford University, and finally passed the exams to obtain credits. I have gained academic knowledge and English communication skills, met many excellent students from all over the world.

Sri Lanka International Volunteer *Jul. 2018*

I Spent the summer vacation time participating in Sri Lankan international volunteer. I taught English and mathematics at local schools there, and contributed to the basic education there. It was a good opportunity for me to have learned about local culture and customs, experienced this unique country and improved my intercultural communicative competence.

SKILLS

Languages	C/C++, Python, Matlab
Tools	MS Office, Latex, Photoshop