

Yating Wu

Dalian University of Technology(DUT)

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EDUCATION

Dalian University of Technology

B.S. in Computer Science & Technology(Intensive Japanese)

Overall GPA: 91.94 Rank: 1/45

The University of Tokyo

Undergraduate Exchange Student in Electronic & Information

Studied and Researched at Aizawa Yamasaki laboratory

Dalian, China

Expected Jun. 2019

Tokyo, Japan

Sept. 2017 - Aug. 2018

RESEARCH & PROJECT

CNN-Based Classification of Depression from Audios

-Supervised by Assistant Professor Toshihiko Yamasaki

Tokyo, Japan

Apr. 2018 - Jul. 2018

- Preprocessed data to get relative confidential audios data, by python.
- Transferred audios into spectrogram information and extracted features, by python.
- Optimized a Depression Classifier with VGG19 structure, by python.
- Improved performance, we surpassed baseline CNN 3% in ROC curve, 3.2% in F1 score, 15.3% in recall scores and got a better accuracy. Besides, our model even performed better than a more complicated model named DepAudioNet.

Course Projects

Lead Developer

Dalian, China & Tokyo, Japan

Jul. 2017, Feb. 2018

- Wrote a colored Tetris Game with different levels, as the level goes higher the blocks fall faster, by C.
- Wrote a ICA project that could separate waves, music, and photos without using any ICA tools, by python.
- Got excellent feedbacks and A scores for both of the two projects.

TI CUP Intelligent Car Contest

Test Developer

Dalian, China

Dec. 2016

- Wrote & Tested programs on intelligent car to make it run by route, by Keil C51.
- Refined the structure of the car and the code to get faster car, by Keil C51 and Altium Designer.
- Won the second fastest in all 61 teams(2/61) for this car.

TI CUP Electronic Design Contest

Lead Developer

Dalian, China

Dec. 2014, 2015, 2016

- Designed & Tuned a mini power amplifier that could amplify music, by Altium Designer
- Co-worked a smart flower pot that could automatically feed water and turn to sunshine.
- Won the first prize in 2016 TI Cup among 150 teams(Top 10%) for this smart pot.

HONORS

China Scholarship Council scholarships

Learning Excellence Award in DUT(Top 5%)

First prize in DUT TI CUP Intelligent Car Contest(Top 5%)

First prize in DUT TI CUP Electronic Design Contest(Top 10%)

Second prize in DUT TI CUP Electronic Design Contest(Top 20%)

Sept. 2017 - Aug. 2018

Oct. 2015, 2016, 2017

Dec. 2016

Dec. 2016

Dec. 2014, 2015

PUBLICATION

Yating Wu, Toshihiko Yamasaki. CNN-Based Classification of Depression from Audios. The 21st Meeting on Image Recognition and Understanding(MIRU) 2018, PS3-58, Aug.5-8, 2018, Sapporo.

SKILLS

Language: Chinese(Native), English(Fluent), Japanese(Fluent) JLPT N1(percentile rank: 90.3%)

Computer Languages: proficient at C/C++, Python, familiar with Verilog, Ocaml, HTML/CSS, L^AT_EX

Technologies: proficient at Altium Designer, Tensorflow, Jupyter, Adobe Audition, familiar with MATLAB