

SHUAI MA

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🎓 EDUCATION

M.S., University of Chinese Academy of Sciences, Computer Science, ISCAS HCI Lab Rank : 1st/12 2017.9 – 2020.7
B.S., Harbin Institute of Technology, Software Engineering, Software School Rank : 4th/170 2013.9 – 2017.7

👤 EMPLOYMENT

Alibaba Health Machine Learning Group 2017.6 – 2017.8

Wave Form Recognition in ECG Signal

- Implemented ECG recognition model proposed by Andrew Ng to detect P,Q,R,S,T wave in ECG signal. Model was trained on MIT-BIH dataset and tested on ECG data from real patient and got an average accuracy of 99.3%.
- Designed a 5-dimensional feature vector and deployed agglomerative clustering method to merge similar clusters to recognise 4 kinds of noise (MA, WB, MI, ACI). The proposed method achieved Sn: 88.05%, Sp: 92.46%, Ac: 91.22% on real ECG dataset.

Netease Beijing R&D Center Youdao NLP Group 2018.1 – 2018.3

A Rule-Based MT for Classical Chinese - Modern Chinese Translation

- Built a dictionary of regular words in classical Chinese and developed a segmentation method based on RMM.
- Built a phrase-based model for translation and got a BLEU score of 0.91 (unigram), 0.84 (bigram) and 0.71 (trigram).

🔪 SELECTED PUBLICATIONS

- [1] Qian Zhu, **Shuai Ma**. What Did I Miss? Assisting User adaptive Missed Content Reviewing in MOOC Learning. In *Proc. UIST2019 EA*. (Review Score: 5/5)
- [2] Qian Zhu, **Shuai Ma**. Pre-screen: Assisting Material Screening in Early-stage of Video Editing. In *Proc. UIST2019 EA*.
- [3] **Shuai Ma**, Zijun Wei, Feng Tian, Xiangmin Fan, Jianming Zhang, Xiaohui Shen, Zhe Lin, Jin Huang, Radomir Mech, Dimitris Samaras, and Hongan Wang. SmartEye: Assisting Instant Photo Taking via Integrating User Preference with Deep View Proposal Network. In *Proc. CHI2019*. (Honorable Mention)
- [4] Yunzhi Li, Liuping Wang, **Shuai Ma**, Xiangmin Fan, Zijun Wang, Junfeng Jiao, and Dakuo Wang. Human-AI Interaction in Healthcare: Three Case Studies About How Patient(s) And Doctors Interact with AI in a Multi-Tiers Healthcare Network. In *Proc. CHI2019 Workshop*.
- [5] Jing Gao, Feng Tian, Junjun Fan, Dakuo Wang, Xiangmin Fan, Yicheng Zhu, **Shuai Ma**, Jin Huang, and Hongan Wang. Implicit Detection of Motor Impairment in Parkinson's Disease from Everyday Smartphone Interactions. In *Proc. CHI2018 EA*.
- [6] Liuping Wang, Xiangmin Fan, Feng Tian, Lingjia Deng, **Shuai Ma**, Jin Huang, and Hongan Wang. mirrorU: Scaffolding Emotional Reflection via In-Situ Assessment and Interactive Feedback. In *Proc. CHI2018 EA*.

💖 HONORS & AWARDS

President Scholarship in Chinese Academy of Sciences 2019.5
ACM CHI 2019 **Honorable Mention Award(1st author)** **2019.3**
Reviewer of ACM CHI 2019 2018.10-2019.1
Master's National Scholarship 2018.10
Pacemaker to Merit Student of UCAS 2018.7
Pacemaker to Merit Student Cadre of UCAS 2018.7
Special Award for Undergraduates of Harbin University of Technology *Top 10 students in HIT* 2017
Excellent Graduates in HIT (*Top1%*) 2017
National Scholarship ×2 2014-2016
HIT outstanding regiment soldiers, outstanding student cadres 2013-2017

🏆 COMPETITIONS

Huawei Cup Free Software Programming Competition *The first prize* 2018.7
Kaggle WAD Video Segmentation Challenge (CVPR 2018) Semantic Segmentation and Recognition of Road Vehicles *4th/141teams* 2018.6
EmotiW 2018 (ICMI Challenge) International Emotional Recognition Competition *Rank: 23th* 2018.6
The 5th National Marine Vehicle Design and Manufacturing Competition *First prize* 2016.8
The 18th National Robot Championship *First Prize* ×2 2016.7
Tianchi Big Data Competition-Sina Weibo Interactive Prediction *Top5%* 2015.9