

Tianrui Hu

◇ Cell Phone: (+86)-188-0017-6581 ◇ Email: hutr96@gmail.com ◇ 6-357, BUPT, Beijing, China ◇

Education

- **Beijing University of Posts and Telecommunications (BUPT)**, Beijing, China Sept 2014–June 2018
B.Eng. in Telecommunication Engineering, School of Information and Communications Engineering (SICE)
 - **Overall GPA:** 3.3 / 4
- **Tsinghua University High School**, Beijing, China Sept 2008–June 2014

Academic Experience & Results

- **Affective Computing and Machine Learning Projects** **Tsinghua University**
Institute of HCI and Media Integration, advisor: Prof. Jia Jia Jan 2017–June 2017
 - Detected depression via social media using multimodal dictionary learning
 - Extracted and processed acoustic and textual information from Sogou's large-scale internet voice data
 - Inferred emotion from acoustic and textual features of voice data by combining an emotion-oriented bimodal deep autoencoder with a deep sparse neural network
- **Computer Vision and Machine Learning Projects** **University of Chinese Academy of Science**
Pattern Recognition and Intelligent System Lab, advisors: Prof. Jianbin Jiao, Ph.D. Ce Li Sept 2016–Jan 2017
 - Extracted depth motion map features from MSRGesture3D dataset
 - Recognized human action with an improved collaborative representation classifier based on l_2 -regularization
- **Graduation Project: Noise Robust Speech Feature Extraction Using Deep Neural Networks** **BUPT**
Pattern Recognition and Intelligent Systems Lab, advisor: Prof. Zhanyu Ma Sept 2017–present
 - Implements speaker recognition system based on a Gaussian Mixture Model-Universal Background Model
 - Extracts adversarial network and DNN bottleneck features to enhance robustness of speaker recognition system
- **Advanced Labs Project: Medical Data Analysis** **BUPT**
Future Network Theory and Application Laboratory, advisor: Prof. Hongyan Cui June 2017–Sept 2017
 - Compared the diagnostic performance of six basic classifiers on physical examination data
- **Data Analysis and Software Development** **China University of Mining and Technology-Beijing**
Institute of Land Reclamation and Ecological Restoration, advisor: Prof. Yanling Zhao June 2016–Aug 2016
 - Developed copyrighted software in Matlab named "System of constructing surface temperature site for coal waste piles" issued by the National Patent Office in China. (Copyright Number: 2016SR198485)

Publications

- Guangyao Shen, Jia Jia, Liqiang Nie, Fuli Feng, Cunjun Zhang, **Tianrui Hu**, Tat-Seng Chua, and Wenwu Zhu. "Depression Detection via Harvesting Social Media: A Multimodal Dictionary Learning Solution" *International Joint Conference on Artificial Intelligence (IJCAI)*, 2017. [URL]
- Shirui Huo, **Tianrui Hu**, and Ce Li. "Improved Collaborative Representation Classifier Based on l_2 -Regularized for Human Action Recognition" *Journal of Electrical and Computer Engineering*, vol. 2017, Article ID 8191537, 6 pages, 2017. doi:10.1155/2017/8191537 [URL]

Honors & Awards

- **Third Class Prize**, the VIContest (nation virtual instrument contest) July 2017
- **First Class Prize**, the 17th Student Creative Award of BUPT June 2017
- **Outstanding Student Leader** of BUPT 2014–2015
- **First Class Prize**, the 13th Awarding Program for Future Scientists, national award Dec 2013

Social Activities

- **Section Director of Science and Technology**, Student Union of SICE, BUPT 2015–2016
- **Secretary**, Student Union of SICE, Student Television of BUPT 2014–2015
- **Commissary in charge of Science and Technology**, Grade Committee of SICE, BUPT 2014–2015