MONANA HE

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Xi'an JiaoTong University (XJTU)

Major in Electronic and Information Engineering | 2018 new graduates

EXPERIENCES

Jun. 2017 – July. 2017 | Research Assistant at College of Business in City University of Hong Kong, research in social sentiments data mining

May. 2017 – Jun. 2017 | Intern in futures group at GuanTian Capital, the biggest PE in Xi'an City, in charge of Auto-trading system software and futures trading strategy development based on machine learning.

Apr. 2016 – May. 2017 | Research intern at Institute of Artificial Intelligence and Robotics, research in Computer Vision and Deep Learning, supervised by Xuguang Lan.

CAPACITY

Currently Practice in an Institute of Artificial Intelligence and Robotics of Xi'an Jiao Tong University
Research interested in: Machine learning, Nature Language Processing
Skills in Programming: Python, C/C++, Linux,
Skills in Graphic Design and 3D modeling: Photoshop, Illustrator, Unity

PROJECT

[COMPUTER VISION] **Human behavior detection recognition based on LSTM | 2016.12**

Use Kinect to make feature detection of human skeleton, capture the spatial coordinate transformation. It aims to recognize the sense of human behavior and focus. I use LSTM to better explore the action type and temporal localization information.

[BIOSTATISTICS] **Integrating regulatory features data for prediction of functional disease-associated SNPs, Briefings in Bioinformatics Shan-Shan Dong, Yan Guo, Shi Yao, Yi-Xiao Chen,** Mo-Nan He**, Yu-Jie Zhang, Xiao-Feng Chen, Jia-Bin Chen and Tie-Lin Yang [DOI: 10.1093/bib/bbx094]**

My responsibility is to develop a pipeline tool named functional disease-associated SNPs prediction (FDSP), which is capsulated in a Python Library named SNP_lib.py, to identify novel susceptibility loci for complex diseases based on the interpretation of the functional features for known disease-associated variants with machine learning.

[DATA SECURITY] **A Fuzzy Password Inference Method Based on Wearable Smart Devices Data Analysis 2017.2**

The wearable smart devices are typically worn by the user's hand, so they have sufficient capacity to detect the movement of the user's hand. I proposed an automatic retry algorithm to study obtaining password methods, including weak classifiers and integrated classifiers, as well as deep neural networks.

CLUB ACTIVITIES

Assumed as Minister of XJTU Microsoft Student Club in 2015-2016

Assumed as hostess for Microsoft AI national-tour lecture in Xi'an Station 2017; Helped Organizing National College Hackthon Programming Contest, Microsoft Research Asia 2015 Summer Camp in Xi'an Station,