

Lihang Liu

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EDUCATIONS

UNIVERSITY OF TEXAS AT AUSTIN

M.S. in Computer Science
Cum. GPA: 3.89/4.0
Aug.2016-May.2018(expected)

SHANGHAI JIAOTONG UNI., CN

B.S. in Computer Science
Cum. GPA: 3.72/4.0
Sep.2012-Jun.2016

FIELDS OF INTEREST

Computer Vision
Machine Learning
Social Network

LINKS

<http://lihangliu.com>
<https://github.com/LihangLiu>

SKILLS

PROGRAMMING

C++ • Java • Matlab
Python • MySQL
Swift

SYSTEMS

Windows • Ubuntu
OSX

ACTIVITIES

- TA Aug.2016 - now
CS378: Mobile computing UT Austin
- RA Sep.2015-Jun.2016
Apexlab, SJTU
- RA Jul.2014-Aug.2015
Multimedia Analysis and Processing
Lab, SJTU

INTERESTS

basketball
baseball
running

INTERNSHIPS

IOS DEVELOPER Quadera Inc., China

Aug.2014 - Dec.2014

- Developed iOS applications of both buyer and seller versions for the campus online shopping platform.

RESEARCH AND COURSE PROJECTS

UNSUPERVISED DEEP DOMAIN ADAPTATION FOR PEDESTRIAN DETECTION - Python, C++, Caffe, Ubuntu Dec.2015 - May.2016

- Built basic pedestrian detection network with Caffe.
- Proposed new layers transformed from the full-connected layer.
- Proposed an unsupervised regularizer.
- Adapted to new domains without any new labels.

SPAM DETECTION AND RATE PREDICTION ON DOUBAN.COM - Java, MySQL Jul.2015 - Oct.2015

- Repeated the ASM model on spam detection.
- Filtered spammer group with Frequent Itemset Mining (FIM).
- Predicted future movie rate by sequential ratings in first two weeks.

VECTOR-QUANTIZATION-BASED METHOD ON ACCENT CLASSIFICATION - Matlab May.2015 - Jun.2015

- Extracted MFCC features with 1st and 2nd order derivatives.
- Used Vector Quantization process to get accent representations.
- Tested classification on 180 speakers of 5 accents with accuracy 93.8%.

COMPUTER GO GAME AGENT BY REINFORCEMENT LEARNING - C++, Multithreading Nov.2014 - Feb.2015

- Chose UCT and AMAF as online learning methods.
- Speed up Monte-Carlo Simulation of computer go by 80%.

PUBLICATIONS

- **L.Liu**, W. Lin, L. Wu, Y. Yu, M. Yang, Unsupervised Deep Domain Adaptation for Pedestrian Detection, ECCV Workshop on Crowd Understanding, 2016.
- **L.Liu**, W. Lin, Y. Zhong, Traffic flow matching with clique and triplet cues, IEEE International Workshop on Multimedia Signal Processing, 2015.
- Y. Mi, **L.Liu**, W. Lin, W. Wang, Extracting Recurrent Motion Flows from Crowded Scene Videos: A Coherent Motion-based Approach, Intl. Conf. Multimedia Big Data workshop, 2015.

AWARDS AND HONORS

- Putian Li Wang Shi Er Mei Scholarship Jul. 2016
- Outstanding Undergraduate Thesis Design, SJTU Jun. 2016
- Fu Guang Scholarship Oct.2013, Dec.2014, Oct.2015
- Scholarship for Excellent Students, SJTU Oct.2013, Oct.2014