

Bin Wang

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Education Background

University of Southern California(USC)

PH.D., SIGNAL AND IMAGE PROCESSING, ELECTRICAL AND COMPUTER ENGINEERING

- GPA: 3.9/4.0 • Supervisor: C.-C. Jay Kuo

Los Angeles, USA

July. 2017 - PRESENT

University of Electronic Science and Technology of China(UESTC)

B.ENG., ELECTRONIC INFORMATION ENGINEERING

- GPA: 4.0/4.0 • 92.4/100 • Rank: 2/351

Chengdu, China

Sep. 2013 - Jun. 2017

City University of Hong Kong

EXCHANGE STUDENT, ELECTRONIC ENGINEERING

- GPA: 4.04/4.3 • Major GPA: 4.3/4.3

Kowloon, Hong Kong

Sept. 2015 - Jan. 2016

Publications

Bin, Wang, Angela Wang, Fenxiao Chen, Yunchen Wang, and C-C. Jay Kuo. "Evaluating Word Embedding Models: Methods and Experimental Results." arXiv preprint arXiv:1901.09785, 2019. (Journal Submission)

Fenxiao Chen, **Bin Wang** and C.-C. Jay Kuo. "Deepwalk-assisted Graph PCA (DGPCA) for language networks." 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2019.

Bin Wang, Fenxiao Chen, Angela Wang, and C-C. Jay Kuo. "Post-Processing of Word Representations via Variance Normalization and Dynamic Embedding." arXiv preprint arXiv:1808.06305, 2018. (Conference Submission)

Chen, Fenxiao, **Bin Wang**, and C-C. Jay Kuo. "Graph-based Deep-Tree Recursive Neural Network (DTRNN) for Text Classification." Spoken Language Technology Workshop (SLT), 2018 IEEE.

Bin Wang, Yunze Li, Haoxiang Lang and Ying Wang. "Hand gesture recognition and motion estimation using the Kinect sensor," Mechatronic Systems and Control, 2019.

Reviewer for: ICME 2019,

Work Experience

Ming Hsieh Institute - Department of Electrical Engineering

TEACHING ASSISTANT, EE483 DIGITAL SIGNAL PROCESSING, UNIVERSITY OF SOUTHERN CALIFORNIA

- Lead Discussion Session and Office Hours.
- Prepare homework solutions as well as exams.

Los Angeles, USA

Aug. 2018 - Present

Media Communication Lab Project

RESEARCH ASSISTANT, UNIVERSITY OF SOUTHERN CALIFORNIA

- Program video streaming module based of WebRTC on Moverio BT-300 smart glasses.
- Automatic Video Captioning: Designed and developed state-of-the-art neural network models (CNN+LSTM).
- Built a video captioning dataset specifically for engine related videos.
- Automatic Video Summarization: Extract color histogram features and employ k-means++ clustering algorithm.

Los Angeles, USA

Jul. 2017 - Aug. 2018

Mitacs Globalink Research Internship

RESEARCH ASSISTANT, UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY

- Design and implement algorithms for hand gesture recognition and speed estimation using Kinect device.
- Apply Simultaneous Localization and Mapping(SLAM) technique on Turtlebot robot.
- Present research at UOIT research showcase as Lab representative.
- One Journal Publication.

Toronto, Canada

Jul. 2016 - Oct. 2016

Skills

- Languages: Python (Scikit-Learn, Numpy, OpenCV), Pytorch, Tensorflow, C, C++
- Others: Matlab, WebRTC
- OS: GNU Linux (Ubuntu), Windows

Key Honors & Awards

2017	Excellent Graduate of Sichuan Province , 5/600	<i>China</i>
2016	National Scholarship , For top 2% student	<i>China</i>
2015	National Scholarship , For top 2% student	<i>China</i>
2014	Outstanding Student Leader Scholarship , School of EE, UESTC	<i>Chengdu, China</i>
2014	Samsung Enterprise Scholarship , The First Prize	<i>Chengdu, China</i>

Research Interests

Natural Language Processing, Statistical Machine Learning, Deep Learning and Computer Vision.