Yunhui Guo

PhD student   E-mail: yug185@eng.ucsd.edu
Department of Computer Science   Phone: (858)-349-8945
University of California, San Diego   Supervisor: Tajana Rosing

Interests

Efficient Machine Learning and Deep Learning

Education

2017- present PhD student, Computer Science, **University of California, San Diego**, USA.

2014-2017 M.S., Computer Science, **Zhejiang University**, China.

2010-2014 B.Eng., Communication Engineering, **University of Electronic Science and Technology of China**, China.

Work Experience

2017.9- present Graduate Student Researcher. SEELAB (System Energy Efficiency laboratory), **UCSD**

2018.6-2018.10   Graduate Research Internship - Artificial Intelligence, **IBM TJ Watson Research Center**

2017.4-2017.7 Deep Learning Intern. BigDL Team, **Intel Corporation**

Skills

Language: C/C++, Python, Matlab, Scala, Javascript, etc.

Operating System: Linux, Windows, MacOS

Miscellaneous: Theano, Keras, Tensorflow, Pytorch, Numpy, Scipy, Pandas, Gensim, Latex, Spark, etc

Publications

In submission

Yunhui Guo, Yandong Li, Liqiang Wang, Tajana Rosing, "AdaFilter: Adaptive Filter Fine-tuning for Deep Transfer Learning"

Yunhui Guo, Sahand Salamat, Mohsen Imani, Tajana Rosing "PerceptronHD: Perceptron-based Hyperdimensional Computing"

Yunhui Guo, Mohsen Imani, Tajana Rosing, "HyperRec: Hyperdimensional Computing Based Recommender Systems"

2019

Yunhui Guo, Honghui Shi, Abhishek Kumar, Kristen Grauman, Tajana Rosing, Rogério Schmidt Feris, "SpotTune: Transfer Learning through Adaptive Fine-tuning.", CVPR 2019

Yunhui Guo, Yandong Li, Liqiang Wang, Tajana Rosing, "Depthwise Convolution is All You Need for Learning Multiple Visual Domains.", AAAI 2019

Anthony Thomas, **Yunhui Guo**, Yeseong Kim, Baris Aksanli, Arun Kumar, Tajana Simunic Rosing, "Pushing Down Machine Learning Inference to the Edge in Heterogeneous Internet of Things Applications", ICNCS 2019

2018

Yunhui Guo. "A Survey on Methods and Theories of Quantized Neural Networks." arXiv preprint arXiv:1808.04752

2017

Yunhui Guo, Congfu Xu, Hanzhang Song, Xin Wang. "Understanding Users' Budget Constraints for Recommendation with Hierarchical Poisson Factorization." IJCAI 2017

Hanzhang Song, **Yunhui Guo**, Congfu Xu, "Incorporating Collaborative Ranking Algorithm with Weighted Recursive Autoencoder for Item Recommendation." AAAI 2017 workshop

2016

Xin Wang, CongFu Xu, **Yunhui Guo,** Hui Qian. "Constrained Preference Embedding for Item Recommendation." IJCAI 2016

Yunhui Guo, Xin Wang, Congfu Xu. "LBMF: Log-Bilinear Matrix Factorization for Recommender Systems." PAKDD 2016

Congfu Xu, Xin Wang, **Yunhui Guo**. "Collaborative Expert Recommendation for Community-Based Question Answering." ECML/PKDD 2016

2015

Yunhui Guo, Xin Wang, Congfu Xu. "CroRank: Cross Domain Personalized Transfer Ranking for Collaborative Filtering". ICDMW 2015

Xin Wang, **Yunhui Guo,** Congfu Xu. "Recommendation Algorithms for Optimizing Hit Rate, User Satisfaction and Website Revenue." IJCAI 2015

Selected Awards

2019 UCSD Research EXPO Best Poster Award

2018 IBM Global Fellowship Final List

2017 National Graduate Student Scholarship

2016 National Graduate Student Scholarship