

Yuzhong Huang

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RESEARCH INTERESTS Natural Language Processing, Graph Embedding, Representation Learning

EDUCATION University of Southern California (USC)

Ph.D. in Computer Science. Advisor: Aram Galstyan. *Aug 2019 - Present*

M.S. in Electrical Engineering. Advisor: C.-C. Jay Kuo. *Aug 2017 - May 2019*

Zhejiang University, China

B.Eng. in Computer Science. *Aug 2012 - Jun 2016*

Singapore University of Technology and Design, Singapore

Exchange Student *Sep 2014 - Dec 2014*

PUBLICATIONS Graph Embedding with Personalized Context Distribution

Yuzhong Huang, Di Huang, Zihao He, Kexuan Sun, Sami Abu-El-Haija, Bryan Perozi, Kristina Lerman, Fred Morstatter, Aram Galstyan

Oral Presentation, The Fifth International Workshop on Deep Learning for Graphs

Anchor Attention for Hybrid Crowd Forecasts Aggregation

Yuzhong Huang, Andrés Abeliuk, Fred Morstatter, Pavel Atanasov, Aram Galstyan
Extended Abstract, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS) 2020

On extended long short-term memory and dependent bidirectional recurrent neural network

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo

Neurocomputing, 2019, Vol.356, p.151-161

Efficient Text Classification Using Tree-structured Multi-linear Principal Component Analysis

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo

2018 24th International Conference on Pattern Recognition (ICPR)

InteriorNet: Mega-scale multi-sensor photo-realistic indoor scenes dataset

Wenbin Li, Sajad Saeedi, John McCormac, Ronald Clark, Dimos Tzoumanikas, Qing Ye, **Yuzhong Huang**, Rui Tang, Stefan Leutenegger

2018 British Machine Vision Conference (BMVC)

EXPERIENCE Information Sciences Institute, USC

Research Assistant

Jun 2018 - Present

- Propose Anchor Attention, an attention based model for sequence summary. Apply it on forecasts aggregation task, integrate into SAGE project. Implemented with Tensorflow.
- Propose Decomposed Word Embedding by Topic Modeling, an embedding method that use a mixture of topic vectors as word embedding. In-Progress.

13th ACM International WSDM Conference

Reviewer

Sept 2019

Media Communications Lab, USC

Student worker

Sep 2017 - Jun 2018

- Propose ELSTM, a variant of LSTM cell with extended memory capacity.
- Propose TMPCA, a tree structure accelerated PCA for text classification.

Hangzhou Qunhe Information Technology

Software Engineer

Jul 2016 - Jul 2017

- Integrate image super resolution into a CUDA-based GPU renderer engine.
- Propose an albedo map guided image super resolution method to improve texture detail quality.
- Implement steganography in renderer engine for copyright protection.

Digital Media Computing & Design Lab, Zhejiang University

Member

Dec 2015 - July 2016

- Work on knowledge base population and event extraction.
- Participate in 2017 NIST Text Analysis Conference, Knowledge Base Population Competition. Ranked 3rd out of 7 teams.

Linux User Group, Zhejiang University

Co-founder, maintainer

May 2013 - July 2014

- Setup open source mirror in Zhejiang University.
- Linux system maintenance, upgrade and synchronization.