邓振云

自然语言处理

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教育经历

奥克兰大学 (导师：Michael Witbrock, Patricia Riddle)　　　　　　　　　　　　　　　　　　*奥克兰, 新西兰*

计算机科学 (研究方向: 可解释性的多跳问答系统)　　　　　　　　　　　　　　　　　　　　　　　　*2019.8 - 2023.3*

广西师范大学 (导师：张师超，朱晓峰)　　　　　　　　　　　　　　　　　　　　　　　　　　　*桂林，中国*

计算机应用技术 (研究方向: 稀疏样本自表示子空间聚类)　　　　　　　　　　　　　　　　　　　　　　*2013.9 - 2016.6*

江西师范大学　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*南昌，中国*

计算机科学与技术　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*2009.9 - 2013.6*

代表性论文

- **Zhenyun Deng**, Yonghua Zhu, Yang Chen, Qianqian Qi, Michael Witbrock, Patricia Riddle. Prompt-based Conservation Learning for Multi-hop Question Answering, International Conference on Computational Linguistics (COLING, **CCF B**), 2022.

- **Zhenyun Deng**, Yonghua Zhu, Yang Chen, Michael Witbrock, Patricia Riddle. Interpretable AMR-Based Question Decomposition for Multi-hop Question Answering. International Joint Conference on Artificial Intelligence (IJCAI, **CCF A**), 2022. (**Oral, 4%**)

- Rongyao Hu, **Zhenyun Deng***, Xiaofeng Zhu. Multi-scale Graph Fusion for Co-saliency Detection. AAAI Conference on Artificial Intelligence (AAAI, **CCF A**), 2021. (**Co-first author**)

- **Zhenyun Deng**, Xiaoshu Zhu, Debo Cheng, Ming Zong, Shichao Zhang. Efficient kNN classification algorithm for big data. Neurocomputing, 2016. (**ESI Highly Cited Paper, citations: 495**)

- **Zhenyun Deng**, Yonghua Zhu, Qianqian Qi, Michael Witbrock, Patricia Riddle. Explicit Graph Reasoning Fusing Knowledge and Contextual Information for Multi-hop Question Answering. Deep Learning on Graphs for Natural Language Processing (DLG4NLP), 2022.(**Oral**)

- **Zhenyun Deng**, Shichao Zhang, Lifeng Yang, Ming Zong, Debo Cheng. Sparse sample self-representation for subspace clustering. Neural Computing and Applications, 2018.

- Qianqian Qi, **Zhenyun Deng**, Yonghua Zhu, Lia Jisoo Lee, Michael Witbrock, Jiamou Liu. TaKG: A New Dataset for Paragraph-level Table-to-Text Generation Enhanced with Knowledge Graphs, AACL-IJCNLP, 2022.

- Yang Chen, Libo Zhang, **Zhenyun Deng**, Neset Özkan Tan, Lia Jiamou Liu, Michael Witbrock. Adversarial Inverse Reinforcement Learning for Mean Field Games, AAMAS, 2023.

- Xiaojing Du, Qingfeng Chen, Debo Cheng, Qian Huang, Junyue Cao, **Zhenyun Deng**, Shichao Zhang. Stable Causal Feature Selection Based on Direct Causal Effect Estimation, IEEE HPCC, 2022.

- Qiming Bao, Alex Yuxuan Peng, Tim Hartill, Neset Tan, **Zhenyun Deng**, Michael Witbrock, Jiamou Liu. Multi-Step Deductive Reasoning Over Natural Language: An Empirical Study on Out-of-Distribution Generalisation. IJCLR-NeSy, 2022.

- Shichao Zhang, Debo Cheng, Rongyao Hu, **Zhenyun Deng**. Supervised feature selection algorithm via discriminative ridge regression. World Wide Web, 2018.

- Shichao Zhang, Yonggang Li, Debo Cheng, **Zhenyun Deng**, Lifeng Yang. Efficient subspace clustering based on self-representation and grouping effect. Neural Computing and Applications, 2018.

- Shichao Zhang, Lifeng Yang, **Zhenyun Deng**, Debo Cheng, Yonggang Li. Leverage triple relational structures via low-rank feature reduction for multi-output regression. Multimedia Tools and Applications, 2017.

- Shichao Zhang, Yonggang Li, Debo Cheng, **Zhenyun Deng**. Hypergraph Spectral Clustering via Sample Self-Representation. Fuzzy Systems and Data Mining, 2016.

- Dahua Lin, Lifeng Yang, **Zhenyun Deng**, Yonggang Li, Yan Luo. Sparse sample self-representation for subspace clustering. CAAI transactions on intelligent systems, 2016.

- Debo Cheng, Shichao Zhang, **Zhenyun Deng**, Yonghua Zhu, Ming Zong. kNN Algorithm with Data-Driven k Value. International Conference on Advanced Data Mining and Applications, 2014. (**Best Paper Award**)

- Jun Yan, Debo Cheng, Ming Zong, **Zhenyun Deng**. Improved spectral clustering algorithm based on similarity measure. International Conference on Advanced Data Mining and Applications, 2014.

工作经历

奥克兰大学 奥克兰, *新西兰*

研究助理 *2022.8 - 2023.3*

- 在国际会议和期刊上发表研究成果
- 共同指导研究生和本科生
- 协助申请项目或科研经费

同方知网技术有限公司 (北京) 北京, *中国*

自然语言处理工程师 *2016.8 - 2018.8*

- 构建一个基于知网知识库的论文新颖性评价系统
- 构建一个提取论文创新点的摘要系统
- 构建一个基于深度学习的论文推荐系统

专利 & 项目

- K 近邻开放性问题的若干研究; 广西研究生教育创新项目, Project No. YCSZ 2015095, co-PI, 2015.5 - 2016.6.
- 朱永华, 宗鸣, 程德波, **邓振云**, 孙可, 朱晓峰, 张师超. 基于子空间学习的嵌入式属性选择方法及其应用, Application No. CN104200077A, 2014. (专利)
- 张师超, 杨利峰, **邓振云**, 程德波. 基于稀疏样本自表示的子空间聚类算法系统, Registration Mark. 2016SR209623. (软件著作权)

学术服务

会议   IJCAI 2023/2022/2021; AAAI 2023/2021; ACMMM 2022/2021, CIKM 2022; ACL Rolling Review.

期刊   Neurocomputing; Multimedia Tools and Applications; Neural Computing and Applications.

教学经历

数据库基础 奥克兰, *新西兰*

研究生助教 *2020 - 2022*

专业技能

研究: Interpretable AI, Question Answering, Natural Language Reasoning, Graph Neural Networks, Deep Learning, etc.

编程: Python, Matlab, C/C++

语言: 英语，中文

软件: pytorch, tensorflow, huggingface, scikit-learn

荣誉 & 奖励

2022	博士论文写作奖	新西兰
2022	计算机科学研究生旅游基金	新西兰
2019	新西兰高等教育委员会基金	新西兰