穿西装打领带的男人

描述已自动生成 Weiqi, Wang 王伟琪 Mighty

2000/08 UG-Year3

Last Updated: 2021/2/25

# Education

* *Sep. 2018 – Now* **The Hong Kong University of Science and Technology** (CGA:**3.895**/4.300)
  + First Major: **Bachelor’s Degree in Computer Science** (CGA: **3.900**/4.300)
  + Second Major: **Bachelor’s Degree in Mathematics** (CGA: **3.986**/4.300)
  + Self-Learning: Programming with Python @Coursera, CS224N, CS231N @Stanford University Website
* *Sep. 2015 – Jun. 2018* ***The Beijing No.8 Middle School*** (Rank: **5**/306)
  + High School’s Diploma in Science

# Research Experience

# Commonsense Knowledge Base Population

# (Undergraduate Research Assistant)

*(Supervisor:* [*Prof. Yangqiu Song*](https://www.cse.ust.hk/~yqsong/)*, HKUST, Jan. 2021 – May. 2021)*

# We aim to populating the current commonsense knowledge bases including ATOMIC, ConceptNet, Probase, Glucose with ASER to generate a unified knowledge base under a consistent schema.

# Details of this project will be made public in April/May 2021 once submitted to Arxiv.

# To be submitted to EMNLP2021.

# DISCOS: Bridging the Gap between Discourse Knowledge and Commonsense Knowledge (Undergraduate Research Assistant)

*(Supervisor:* [*Prof. Yangqiu Song*](https://www.cse.ust.hk/~yqsong/)*, HKUST, Sep. 2020 – Dec. 2020)*

# We propose an alternative commonsense knowledge acquisition framework DISCOS (from DIScourse to COmmonSense), which automatically mines expensive complex commonsense knowledge from more affordable linguistic knowledge resources.

# Experiments demonstrate that we can successfully convert discourse knowledge over eventualities from ASER, a large-scale discourse knowledge graph, into inferential if-then commonsense knowledge defined in ATOMIC without any additional annotation effort.

# Further study suggests that DISCOS significantly outperforms previous supervised approaches in terms of novelty and diversity with comparable quality.

# Data-driven Smart Assessment of Room Air Conditioner Efficiency for Saving Energy (Undergraduate Research Assistant)

*(Supervisor:* [*Prof. Zhongming Lu*](https://facultyprofiles.ust.hk/profiles.php?profile=zhongming-lu-zhongminglu)*, HKUST, Jun. 2020 – Jan. 2021)*

# We present a machine learning approach to identify non-inverter window air conditioners with low efficiency using climate data and smart meter data from the university student hall rooms.

# Our result shows that the accuracy of XGBoost is 50~70% in estimating the hourly electricity consumption within a 10% error deviation range from the actual data.

# We conclude that the AC is highly efficient if the predicted hourly electricity consumption increases as the outdoor temperature rises. In contrast, the AC efficiency is rated low-efficiency if the change of outdoor temperature does not affect the prediction of the hourly electricity consumption. This conclusion is further verified by the AC replacement record.

# Publications

# Commonsense Knowledge Base Population

# To be submitted to Empirical Methods of Natural Language Processing, 2021 (EMNLP2021)

# DISCOS: Bridging the Gap between Discourse Knowledge and Commonsense Knowledge

# (Tianqing Fang, Hongming Zhang, Weiqi Wang, Yangqiu Song, Bin He)

# Published in the Proceedings of The Web Conference, 2021 (WWW2021) (357/1736=20.56%)

# [Link to the paper](https://arxiv.org/abs/2101.00154), [link to the code](https://github.com/MighTy-Weaver/DISCOS-commonsense)

# Data-driven Smart Assessment of Room Air Conditioner Efficiency for Saving Energy

# (Weiqi Wang, Zixuan Zhou, Zhongming Lu)

# Under Review in Applied Energy (APEN) (IF=8.848)

# [Link to the code](https://github.com/MighTy-Weaver/Inefficient-AC-detection)

# Campus Experience

# Subcommittee of Mainland Scholar and Students Society Undergraduate (MSSSUG)

# *(Sep. 2018 – Dec. 2018 )*

# Helped making the annual plan of the entire society.

# Hosted several society functions.

# Student Teaching Helper in COMP1022P (CSE Department)

# *(Sep. 2019 – Nov. 2019)*

# Grade student’s lab work and answer their questions.

# School of Engineering’s Representative in Admission Interview (School of Engineering)

# *(Jan. 2020, Jul. 2020, Jan. 2021)*

# Share my experience in HKUST as the representative of School of Engineering and answer their questions on admissions and studying & living in HKUST.

# Language and Skills

# Language: English (advanced), Mandarin (native), Cantonese (beginner)

# Skills:

# Advanced: Python, Proficient: C++, Java, Basic: HTML5, JavaScript

# Proficient with PyTorch, TensorFlow, Keras, Scikit-Learn

# Currently working on Knowledge graphs and GNNs.

# Scholarships and Honors

# Dean’s List for the School of Engineering *in* Fall 2018, Fall 2019, Fall 2020.

# University’s Scholarship Scheme for Continuing Undergraduate Students *in* 2019-2020 and 2020-2021

# Contact Me!

# This email: [1874240442@qq.com](mailto:1874240442@qq.com) will be active all the time!

# You are also welcomed to visit my personal webpage <https://mighty-weaver.github.io/>!

# My current address is *Room3007, Cheng Yu Tung Building, HKUST, Sai Kung, Hong Kong SAR, China*