Shangqing Tu

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EDUCATION

Beihang University   **Beijing, China**

Bachelor of Computer and Science Technology   **Sep. 2018-Jul. 2022**

GPA: 3.8/4.0，90.63/100

TOEFL: 103 (R29, L28, S22, W24)

Computer Skills: Proficient in C、Python、Java、C++、SQL、Verilog、PyTorch、 Linux、MATLAB

PUBLICATIONS

➢ Fangwei Zhu, **Shangqing Tu**, Jiaxin Shi, Juanzi Li, Lei Hou and Tong Cui.

TWAG: A Topic-guided Wikipedia Abstract Generator.

(ACL-IJCNLP 2021, accepted, main conference, long paper)

➢ Sizhe Zhang, **Shangqing Tu** , Zhipeng Sui, Shuo Gao.

Piezoelectric And Machine Learning-Based Technique For Classifying Force Levels And Locations Of Multiple Force Touch Events.

(IEEE FLEPS 2021, accepted, lecture presentation)

RESEARCH EXPERIENCE

TWAG: A Topic-guided Wikipedia Abstract Generator

*Research Assistant , Advisor: Prof.Juanzi Li,*Tsinghua University   *May. 2020-Feb. 2021*

- The topic of each input paragraph is detected by a classifier trained on existing Wikipedia articles to divide input documents into different topics.
- The topic distribution of each abstract sentence is predicted, the sentence from topic-aware representations is decoded with a Pointer-Generator network.
- The model is evaluated on the WikiCatSum dataset, and the results show that TWAG outperforms various existing baselines and is capable of generating comprehensive abstracts.

Piezoelectric And Machine Learning-Based Technique For Classifying Force Levels And Locations Of Multiple Force Touch Events.

*Research Assistant , Advisor: Prof.Shuo Gao,*Beihang University   *Dec. 2020-Feb. 2021*

- When fingers touch the piezoelectric panel, the charge generated by the PVDF membrane is amplified by the charge amplifier and becomes a voltage signal.
- After the voltage peaks for each channel have been acquired, three typical machine learning algorithms are employed to classify locations and force levels: LightGBM, Support vector machine (SVM), and Artificial neural network (ANN).

HONORS

Scholarships for Outstanding First-class Learning at Beihang University   **2019**

The Second Prize of National Physics Competition for College Students   **2019**

The First Prize of Beijing Mathematical Modeling Intercollegiate Competition   **2020**