RUN-ZE FAN (樊润泽)

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EDUCATION

University of Chinese Academy of Sciences Sep. 2021 - Jun. 2024(Expected)
M.S. in Computer Science and Technology
CAS Key Lab of Web Data Science and Technology, Institute of Computing Technology(ICT)

Shanghai Maritime University Sep. 2017 - Jun. 2021
B.E. in Computer Science and Technology Overall GPA: 3.85/4.0
Department of Information Engineering Ranking: 1/109

RESEARCH INTERESTS

My research interest majorly lies in **Machine Learning**, including **Transfer Learning**, **Deep Learning** , **Domain Adaptation** and their applications in **Natural Language Processing** and **Computer Vision**.

TECHNICAL SKILLS

Programming	PyTorch, Python, MATLAB
Software & Tools	LaTeX, Git
English	CET-6: 470

RESEARCH EXPERIENCES

Bachelor's Graduation Project Dec. 2020 - May 2021
A Study of Key Elements Extraction Methods at Article Level *Excellent Bachelor's Graduation Thesis*

- To address **Key Entity Extraction** problem, we propose and implement a key entity extraction algorithm based on similarity weight transfer. Firstly, we use BERT and CRF model for named entity recognition, then we use the graph-based unsupervised model TextRank algorithm to find the key phrases and their importance weights, and finally we use **the proposed key entity extraction algorithm KEE-SWT** to find the key entities, i.e., key person, key location and key organization.
- The experimental results show that the KEE-SWT algorithm proposed in this paper outperforms the MultiRank algorithm (**F1-Score improves by 18% on Top-1 and 12.5% on Top-3**), and the title entity weight enhancement method can significantly improve the performance of KEE-SWT and MultiRank algorithms (**F1-Score improves by 13% on average on Top-1 and 6.6% on Top-3**).

National Undergraduate Innovation Project Apr. 2019 - Apr. 2021
An App that Rates Calligraphy Copying Works based on Image Features *Presider*

- Acted as the project presider, worked on image preprocessing of single page calligraphy works, character segmentation by Sweep line, individual character skeleton extraction by index table refinement algorithm, radicals and partial feature extraction by seeking connected subgraph.

SELECTED COMPETITIONS

Dec. 2018	**Asia and Pacific Mathematical Contest in Modeling**	**International 2nd Prize**
Apr. 2019	**Accreditation Cup Mathematical Modeling Competition**	**National 3rd Prize**
Nov. 2018	**Mathematics Competition of Chinese College Students**	**National 3rd Prize**
Dec. 2019	**China Undergraduate Mathematical Contest in Modeling**	**Municipal 2nd Prize**
Dec. 2018	**Physics Competitions for College Students in Shanghai**	**Municipal 2nd Prize**

SELECTED AWARDS

Excellent Bachelor's Graduation Thesis	2021 Shanghai Maritime University
Excellent Graduate	2021 Shanghai Maritime University
First Class Scholarship of Shanghai Maritime University	2019, 2020, 2021
Three Good Activists of Shanghai Maritime University	2018, 2019, 2020