Jiuniu Wang

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Education

Institute of Electronics, University of Chinese Academy of Sciences (UCAS)   Beijing, China
PhD in Computer Science   2016 - now
- Supervisor: Prof. Yirong Wu

Beijing Institute of Technology (BIT)   Beijing, China
B.S. in Electronic Engineering   2012 - 2016
- Rank: 1/61, GPA: 92.6/100
- Outstanding graduate

Research Interest

Deep learning, Computer Vision, Natural Language Processing, and the intersection of vision and language

Publication

- **Jiuniu Wang**, Xingyu Fu, Guangluan Xu, Yirong Wu, Ziyan Chen, Yang Wei, Li Jin, A3Net: Adversarial-and-Attention Network for Machine Reading Comprehension, Acceptted by CCF International Conference on Natural Language Processing and Chinese Computing, 2018. **Accepted as Oral Presentation** (EI)

- **Jiuniu Wang**, Xingyu Fu, Guangluan Xu, Yirong Wu, SRQA: Synthetic Reader for Factoid Question Answering, **Under Review** In: Knowledge-Based Systems (SCI)

Skills

Deep Learning Software Stacks
- Proficent with Pytorch, familiar with TensorFlow, Numpy and IPython Notebook

Programming Language
- Proficent with Python and Matlab, familiar with JAVA and C/C++

English Standardized Test
- TOEFL (Oct, 2017) | Overall Band Score 84/120, Listening 23/30, Reading 22/30, Writing 22/30, Speaking 17/30

Honors and Scholarship

Scholarship

- 2018 | 1st Grade Scholarship (1/27), University of Chinese Academy of Sciences
- 2013-2014, 2014-2015 | National Scholarship (4/500), Minstry of Education in China
- 2013-2016 | 1st Grade Scholarship (1/61), Beijing Institute of Technology

Awards

- 2018 | Outstanding Student Leader, University of Chinese Academy of Sciences
- 2017 | The third prize in Huawei Network Technology Competition, Huawei Technologies Co.
- 2016 | Outstanding graduate, Beijing Institute of Technology
- 2015 | Merit Student, Beijing
- 2014 | The second prize in Electronic Design Contest, Beijing
- 2014 | The first prize in Mathematical Contest in Modeling, Beijing Institute of Technology
- 2014 | The second prize in Programming Contest, Beijing Institute of Technology
- 2013 | The third prize in Mathematics Competitions, Beijing
- 2013 | The third prize in Physical Contest, Beijing
- 2013-2016 | Pacemaker to Merit Student, Beijing Institute of Technology

Projects

Fine-grained classification and Explanable AI   UCAS, Beijing, China
                                                                      2018.10 - now

- Use CNN with local and global attention to perform Fine-grained classification.
- Propose Attribute-Explanation network to improve the performance of Fine-grained classification. This model achieves competitive performance on CUB dataset.
- Visualize the attributes by Grad-CAM, which indicates the important attributes for classification. Language explanations are generated to explain the network output.

Multiple evidences Question Answering System   UCAS, Beijing, China
                                                                    2017.12 - 2018.10

- Apply Multi-layer Attention to each layer of our model to discover useful syntactic and semantic information from long passages.
- Utilize Cross Evidence strategy to read more relevant information, allowing evidences from different documents to verify each other.
- Blend Adversarial Training on several variables in our model, adapting to the interference caused by multiple evidences.
- Gain the best result on WebQA, a large scale real-world QA dataset.

Course: Stanford CS231n: Convolutional Neural Networks for Visual Recognition   UCAS, Beijing, China
                                                                    2017.09 - 2017.11

- Implement core functions of typical networks: CNN, RNN, GAN.
- Study training skills.
- Applications: image captioning, visualizing CNN.

Huawei Network Technology Competition   Huawei Technologies Co.,
                                                            Shenzhen, China
                                                          2017.03 - 2017.06

- Focus on basic skills of Information Communications Technology (ICT), including cloud computing, big data, Docker, etc.
- Build basic networks based on topology and protocols designed by Huawei.
- Design a private cloud network solution for customers, including hardware procurement and software construction.

Data checking on advertising monitoring system   AdMaster Inc., Beijing, China
                                                                    2016.03 - 2016.08

- Check the running statement of the whole advertising monitoring system by data quality.
- Analyze the new data on certain period, including its amount, integrity and hardware resource occupancy.
- Use Hadoop distributed file system to analyze data in different dimensions like areas, time, age, view and clicks.

Development of Trojan system for mobile terminals   BIT, China
                                                                    2015.10 - 2016.01

- Build a Trojan system based on Android platform.
- Receive privacy information of target terminal, including Contact, SMS, location and phone recording, etc.

Extracurricular Activity

Member of Practice Department in Student Union   UCAS, Beijing, China
                                                                    2017.09 - now

Software R&D Intern   AdMaster Inc., Beijing, China
                                                                    2016.03 - 2016.08

Chairman of the Learning and Practice Association, Department of Electronic Engineering   BIT, China
                                                                    2014.11 - 2015.12