XUEQING WU

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EDUCATION

University of Science and Technology of China   Sep. 2016 - Jun. 2020
BS in Electronic Engineering & Information Science
Member of Honors Program in Computer and Information Science and Technology
Member of Honors Program in AI
GPA: 4.03/4.30 (Ranking: 1/363)

EXPERIENCE

Simultaneous Translation   Dec. 2019 - Jul. 2020
Mentor: Tao Qin   *Machine Learning Group, MSRA*

· Trained the *wait-k* system with access to future information (i.e., larger k') during training
· Adopted REINFORCE algorithm to jointly train a controller that adaptively selects k'
· Improved 1.0 - 3.0 BLEU (under similar latency) on large WMT dataset and small IWSLT datasets

Long Document Modeling   Jul. 2019 - Sep. 2019
Mentor: Wang Wei   *ScAi Lab, UCLA*

· Designed sparsified Transformer based on Graph Attention Network to decrease memory consumption
· Proposed a semantic-aware pooling module to increase the receptive field
· Attained competitive results on IMDB dataset

Oriented Object Detection in Aerial Images   Mar. 2019 - Jun. 2019
Mentor: Jun Du   *NELSLIP Lab, USTC*

· Improved the representation of oriented objects based on the periodicity of tilt angle
· Proposed Length Independent IoU (LIIoU) to increase the recall for long objects
· Won a 1st Prize and a 2nd Prize in Challenge-2019 on Object Detection in Aerial Images held by CVPR

PUBLICATIONS

Yixing Zhu, Jun Du, **Xueqing Wu**, *Adaptive Period Embedding for Representing Oriented Objects in Aerial Images*, IEEE Transactions on Geoscience and Remote Sensing. 2020. [link](#)

AWARDS & HONORS

First Place and **Second Place**, Challenge-2019 on Object Detection in Aerial Images   Apr. 2019
Honorary Rank (Top 5%), USTC   Nov. 2019
Guo Moruo Scholarship (Highest honor at USTC, top 1%), USTC   Oct. 2019
Meritorious Winner, MCM / ICM   Jan. 2019
First Prize, Robogame, USTC   Nov. 2018
Tang Lixin Scholarship, Tang Lixin Education Development Foundation   Oct. 2018
National Scholarship, China   Oct. 2018
Second Prize, Anhui Province, National Undergraduate Electronic Design Contest   Jun. 2018
Medal Prize, Software Track, International Genetically Engineered Machine Competition   Nov. 2017

SKILLS

Languages: Python (proficient), C++ (competent)
Deep Learning: PyTorch (proficient)   **OS**: Debian (proficient)