Ling Luo

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Education

2016-2019	MASTERS in Information Security at Beijing University of Posts and Telecommunications. GPA:3.44/4. *Research focus: Machine Learning & Computer Vision*
2012-2016	BACHELOR OF SCIENCE in Information Security at Beijing University of Posts and Telecommunications. GPA:3.4/4 Rank: top 15%.

Projects & Experiences

2017-2018	Internship at Deepwise Co.Ltd Research Institute. We used deep learning methods to detect calcification and masses in mammograms(X-ray of breasts) as early diagnosis of breast cancer. As the main researcher, my work contains: 1. Develop microcalcification detection algorithms using Student's t-test loss to learn different residuals. By putting constraints directly on the residual distribution of each category, microcalcification can be significantly distinguished from normal tissues. 2. Develop mass detection and segmentation algorithms using bilateral mammograms based on Mask-RCNN. By redesigning data flow and network, differences between bilateral breasts are introduced which prove to reduce false positives and increase recall. Both work has been productized and deployed in several hospitals.
2017	Reconstruction-based Robust Pavement Crack Detection: Proposed a novel network using reconstruction loss to enforce segmentation performance since crack detection is more like an abnormal detection task. This program is aimed for transportation maintenance, and the proposed method shows better generality among different road conditions.
2017	Wechat chatbot based on Rasa NLU: Developed an chatbot for Wechat by combining Rasa NLU(natural language understanding) Rasa Core(dialogue manager) and Wechat api. More details can be seen in my blog.
2017	Baidu Meizu deep learning Application Contest: Developed an attention-based arithmetic recognition algorithms for four fundamental admixture operations of arithmetic and ranked **8/206**.
2017	Tianchi Lung Nodule Analysis Contest: Designed two networks to detect the nodule candidates and reduce false positive rate respectively and ranked **64/2887**. More details can be seen in my blog.

2015   Internship at Center for Speech and Language Technology (CSLT) : Evaluated 6 word embedding models using NLP tasks to provide benchmark for new embedding models.

2015   The 5th National Colleges Information Security Contest : Designed and learned the features of manifest files and smali code to detect Android malware using Random Tree Algorithms.

2015   The Colleges Innovation Contest: Developed a mobile puzzle game with Unity 5.0 using C#.

2015   2015 Mathematical Contest in Modeling: Proposed a routes optimization model for searching planes crashed in open water, which won **Honorable Mentioned** prize.

Skills

Programming   Python, Java, SQL, LaTeX, MATLAB

Tools   Git, Pytorch, Tensorflow, Caffe, Unity3D

Language   Chinese Mandarin (native), English (TOEFL 104, IELTS 7.0, GRE 324)