Lu Xu

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🎓 EDUCATION

Huazhong Agricultural University   2016.09 – 2019.06

Master   Machine Learning & Computer Vision

- 1st Prize in Annual Academic Report   2018.12
- 1st Scholar Prize   2018.10
- 1st Prize in Annual Academic Report   2017.12
- 2nd Scholar Prize   2017.10

Hubei University of Technology   2011.09 – 2015.06

Bachelor   Management Information System

- Excellent Paper: «Research on Hot Topic Detection and Tracking based on Incremental Clustering»   2015.06
- Software Copyright: Hot Topic Detection & Tracking System (2015SR165186)   2015.06
- NECCS 3rd Prize   2014.04

English: (CET-6: 575/710). Proficiency in Reading and Writing

🎓 RESEARCH

Deep Learning/Face Analysis/Machine Learning   2017.01 – Present

- Fan, Heng, **Lu Xu**, and Jinhai Xiang. "Complementary Siamese Networks for Robust Visual Tracking." ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2019.
- **Xu, Lu**, Jinhai Xiang, and Xiaohui Yuan. "CRNet: Classification and Regression Neural Network for Facial Beauty Prediction." Pacific Rim Conference on Multimedia. Springer, Cham, 2018.
- **Xu, Lu**, et al. "Data-driven Approach for Quality Evaluation on Knowledge Sharing Platform." arXiv preprint arXiv:1903.00384 (2019).
- **Xu, Lu**, Jinhai Xiang, and Xiaohui Yuan. "Transferring Rich Deep Features for Facial Beauty Prediction." arXiv preprint arXiv:1803.07253 (2018).
- **Xu, Lu**, and Yating Wang. "XCloud: Design and Implementation of AI Cloud Platform with RESTful API Service." [1] Technical Report (2019).
- Hierarchical Multi-task Networks for Race, Gender, and Facial Attractiveness Recognition.
- Multi-Task Tree Convolutional Neural Network for Facial Expression Recognition and Face Analysis.
- Automatic Cyber Terror Information Classification based on Deep Learning and Random Forests. (Chinese)
- **Reviewer of Elsevier Journal <Neurocomputing>**

Projects & Competition   2016.09 – Present

- Plant Disease Recognition Center (PDRC): Requirement Analysis/Architecture Design/Deployment
- 1st place on Facial Expression Recognition Challenge on Real-word Affective Face Database with our proposed *TreeCNN*
- 1st place on Skin Lesion Analysis on ISIC and SD-198 datasets with our proposed *CFPNet* and *ANGELE* algorithm
- Web Data Crawling & Analysis of `www.lagou.com` [2]

👥 EXPERIENCE

Blibee   2019.02 – Present

Algorithm Intern

Store Intelligent Decision-making Department

- Convenience Store screen digit recognition with 99.07% accuracy
- Kanto Cooking (Display & Discard) detection and fine-grained recognition

DiDi   2018.09 – 2019.01

Algorithm Intern

Security Product & Technology

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[1] `https://github.com/lucasxlu/XCloud.git`
[2] `https://github.com/lucasxlu/LagouJob.git`

- License image quality recognition (reflection/blur) with 93.15% Precision and 98.35% Recall
- Facial beauty prediction with 0.89 Pearson Correlation
- License type recognition with 99.77% Precision and 99.76% Recall
- Scene recognition (in car/out of car) with 99.89% Precision 99.90% Recall
- License completeness recognition with 99.80% Precision and 99.81% Recall
- Complete the writing of 21 patents related to safety products

GeeTest   2018.09 – 2018.09
Data Mining Intern

Behavior Verification Code Data Mining
- User behavior data analysis & mining base on Spark
- Feature extraction of black-and-white sample behavior dataset
- Complete the writing of data analysis report

Guangzhou Yingzi Tech   2018.02 – 2018.03
Deep Learning/Python Engineer

Animal Identification Center
- Implementation of Amazon S3 data interaction module; Cleaning and pre-processing of existing Label-Me data
- Implement and train face detection model (MTCNN), and face identification model (FaceNet) based on TensorFlow
- Encapsulate RESTful API based on Django, V1.0 achieves an accuracy over 95%

Beijing Jiewen Tech, Huazhong R&D Center.   2015.06 – 2016.06
Java/Web Spider Developer

Financial Information System & Multi-thread Web Crawling System
- Develop and maintain web information system based on Java SSM framework and MySQL database.
- Develop web crawlers to collect data from O2O websites (e.g. Ctrip, Dazhong Dianping, AMap) based on Python/Java and MySQL/MongoDB.
- Data statistics, analysis and visualization. It provides important data support for company offline product location

⚙ Skills

- Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis
- Programming: Java == Python > R > C++
- Framework: PyTorch/TensorFlow/Scikit-Learn/OpenCV
- Database: MongoDB/MySQL/Oracle
- Others: Web Crawler/Web Development/PPT/LaTeX