Lucas Xu

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🎓 Education

Huazhong Agricultural University	**Master**	**ML/CV**	**2016.09 – 2019.06**
Hubei University of Technology	**Bachelor**	**MIS**	**2011.09 – 2015.06**

👥 Experience

Blibee   2019.02 – Present

Store Intelligent Decision-making Department   Computer Vision Algorithm Engineer

- Fresh food fecognition: algorithm design and online serving system development
- Display consistency and empty display audit: algorithm (shelf detection + image quality assessment + product ReID) and system design
- Development of online serving photo audit system (shelf pose+completeness+image quality+glass detection)
- Design and implementation of stream computing architecture with application to product recognition
- Develop a web-based system for fast image retrieval/ReID annotation (PyTorch + Django + Faiss)

DiDi   2018.09 – 2019.01

Security Product & Technology Department   Deep Learning Intern

- License image quality recognition (P=93.15%, R=98.35%) and scene recognition (P=99.89%, R=99.90%)
- License type recognition (R=99.77%, R=99.76%) and completeness recognition (P=99.80% , R=99.81%)
- Facial beauty prediction with 0.89 Pearson Correlation
- Write 21 patents related to safety products

Aisino Corporation   2015.06 – 2016.06

Financial Software Department   Java Software Engineer

- Develop and maintain 2 web information system based on Java SSM framework and MySQL
- Develop multi-thread web crawling systems from popular O2O websites (e.g. Ctrip, Dazhong Dianping, AMap)
- Support offline product localization with data-driven methods (data analysis and visualization)

🎓 Research

Publications (Machine Learning/Computer Vision)

- **Xu L**, Fan H, Xiang J. Hierarchical Multi-Task Network For Race, Gender and Facial Attractiveness Recognition[C]//2019 IEEE International Conference on Image Processing (**ICIP**). IEEE, 2019: 3861-3865.   (**Oral. CCF C, EI**)
- Fan H, **Xu L**, Xiang J. Complementary Siamese Networks for Robust Visual Tracking[C]//2019 IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**). IEEE, 2019: 2247-2251.   (**CCF B, EI**)
- **Xu, Lu**, Jinhai Xiang, and Xiaohui Yuan. "CRNet: Classification and Regression Neural Network for Facial Beauty Prediction." Pacific Rim Conference on Multimedia (**PCM**). Springer, Cham, 2018.   (**CCF C, EI**)
- **Xu L**, Xiang J, Wang Y, et al. Data-Driven Approach for Quality Evaluation on Knowledge Sharing Platform[C]//2019 International Conference on Machine Learning and Cybernetics (ICMLC). IEEE, 2019: 1-6.   (**EI**)

Professional Service

- Reviewer of Elsevier Journal <Neurocomputing>   (**SCI, IF=4.072**)
- Reviewer of <Indonesian Journal of Electrical Engineering and Computer Science>   (**EI**)

Projects

- XCloud: Design and Implementation of AI Cloud Platform with RESTful API Service [1]
- Software Copyright: Hot Topic Tracking and Detection System V1.0 (No.2015SR165186)

⚙ Skills

- English: (CET-6: 575/710). Proficiency in Reading and Writing
- Algorithm: Deep Learning/Machine Learning/Data Analysis
- Programming: Java == Python == LaTeX> R > C++
- Framework: PyTorch/TensorFlow/MXNet/Scikit-Learn/OpenCV
- Database: MongoDB/MySQL/Oracle/Redis

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