Lucas Xu

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🎓 Education

Huazhong Agricultural University   2016.09 – 2019.06

Master   Machine Learning & Computer Vision

Hubei University of Technology   2011.09 – 2015.06

Bachelor   Management Information System

🎓 Research

Publications (Machine Learning/Computer Vision)   2017.01 – Present

- **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.   (**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**)
- **Xu L**, Xiang J, Yuan X. Transferring rich deep features for facial beauty prediction[J]. arXiv preprint arXiv:1803.07253, 2018. (Accepted to International Symposium on Artificial Intelligence and Robotics (ISAIR))   (**EI**)
- **Reviewer of Elsevier Journal <Neurocomputing>**   (**SCI, IF=4.072**)

Projects   2016.09 – Present

- XCloud: Design and Implementation of AI Cloud Platform with RESTful API Service [1]
- Web Data Crawling & Analysis of Lagou [2]
- Software Copyright: Hot Topic Detection & Tracking System (2015SR165186) [3]

👥 Experience

Blibee   2019.02 – Present

Store Intelligent Decision-making Department   Computer Vision Algorithm Engineer

- Online Food Recognition System: 0.963 AP for detection, 95.66% accuracy for recognition
- Daily fresh food recognition with 0.920 AP and 99.09% accuracy
- Products (Tissue&Clothing) Re-identification with 99.43% rank-1 accuracy
- Model deployment with RESTful API (PyTorch + Django + TensorRT + Nginx)
- Develop a web-based image retrieval annotation system (PyTorch + Django + Faiss)

DiDi   2018.09 – 2019.01

Security Product & Technology Department   Algorithm Intern

- 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
- Write 21 patents related to safety products

Beijing Jiewen Tech, Huazhong R&D Center.   2015.06 – 2016.06

Financial Software Department   Java/Web Spider Developer

- Develop and maintain 2 web information system based on Java SSM framework and MySQL
- Multi-thread web crawling system (e.g. Ctrip, Dazhong Dianping, AMap)
- Data statistics, analysis and visualization, which provide important data support for offline product location

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[1] https://github.com/lucasxlu/XCloud.git
[2] https://github.com/lucasxlu/LagouJob.git
[3] https://github.com/xuludev/System.git

⚙ Skills

- English: (CET-6: 575/710). Proficiency in Reading and Writing
- Algorithm: Deep Learning/Machine Learning/Computer Vision/Data Mining/Data Analysis
- Programming: Java == Python > R > C++
- Framework: PyTorch/TensorFlow/MXNet/Scikit-Learn/OpenCV/DeepLearning4J
- Database: MongoDB/MySQL/Oracle
- Others: Web Crawler/Web Development/Office/Docker(Familiar)/LaTeX