**赵云安**

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教育背景

2013.9.—2016.3. 硕士，**计算机视觉与机器学习**，电子信息与电气工程学院，上海交通大学。

2009.9.—2013.6. 本科，**自动化/国际经济与贸易**，电子信息与电气工程学院，上海交通大学。

项目经历

**2015.6.—2015.9. 阿里巴巴集团—搜索事业部 算法工程师（实习）**

* 使用ODPS大数据处理工具（Hadoop封装）对淘宝和天猫全网商品数据做品牌同义词的挖掘工作。从卖家、类目、商品数量等不同维度挖掘高置信度品牌同义词约10万对，评测准确率98.4%，每天增量约100对，产出结果基本无需人工review；
* 运用GBDT回归算法，预估商品因为品质问题而遭用户退款的概率。利用MapReduce强大的分布式计算能力，进行商品数据的获取、采样、清洗，商品特征的提取、处理、筛选，以及模型的选择、优化等工作，对预测结果中品质退款率高的商品做降权处理，使优质商品的排序靠前，省去用户反复翻页的开销；

**2014.9.—2015.6. 视频图像中的车辆特征可信识别技术研究 实验室项目**

* 针对高速公路卡口拍摄的不同光照、视角、场景条件下的图像，使用开源视觉库OpenCV和AdaBoost算法对其中的车辆、车牌、车标等目标进行检测；
* 完成对目标多特征（HOG、LBP）的提取与融合，实现车型识别（SVM）、车辆颜色识别（SVM）、车牌字符识别（ANN）和车标识别（CNN）功能；
* 以第一作者发表**发明专利**“快速级联式车标视觉检测与识别方法”一篇；

**2014. 6.—2014.9 上海渤视电子科技有限公司 软件工程师（实习）**

* 使用OpenCV中的视觉检测算法（haar特征+级联分类器）检测图像中的人脸及双眼；
* 制定疲劳状态判别规则，设计疲劳状态识别算法，经测试评估识别正确率超过90%；

**2013.8.—2014.6 基于Vega/OSG的虚拟现实仿真系统研发 实验室项目**

* 使用Qt Creator和OSG编写具有真实作战背景和军事目标的实时3D战场环境仿真软件；
* 在可见光渲染基础上调用Vega底层API编写红外渲染模块, 实现对真伪军事目标的甄别；

个人技能

* 熟悉C/C++编程，熟练掌握数据结构和算法知识；熟练运用机器学习算法与开源库OpenCV、Qt、OSG等；熟悉Linux系统和Vim命令，熟练使用Shell编写脚本；了解MapReduce模型，了解数据库和SQL语言，拥有海量数据处理和分布式开发经验；
* 通过大学英语四六级考试；擅长MATLAB、Photoshop、Corel VS、Latex等；

校园生活

* 绩点排名班级前**5%**，获硕士学业奖学金**2**次，CASC航天科技奖学金（**4%**）1次；科研论文*"Decentralized robust control of fractional-order interconnected systems with uncertainties"*（第一作者）发表于**国际SCI期刊***International Journal of Control.*
* 获得“钱学森杯”大学生科技创新竞赛一等奖（**9%**）和**全国研究生数模竞赛**三等奖；
* 担任研究生会、党联会宣传部长，组织暑期社会实践活动并获得上海市“最佳项目奖”；

**Zhao Yunan**

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Education

2013.9.-2016.3. Master, **Computer Vision and Machine Learning (ML)**, School of Electronics, Information and Electrical Engineering (SEIEE), Shanghai Jiao Tong University (SJTU).

2009.9.-2013.6. Bachelor, **Automation/International Economics and Trade**, SEIEE, SJTU.

Experience

**2015.6.-2015.9. Alibaba Group-Search Division Algorithm Engineer (intern)**

* Mining brand synonym from Taobao and Tmall commodity data with ODPS. From various dimensions such as sellers, categories and commodity numbers, my program produced more than 100000 brand synonyms with accuracy of 98.4%.
* Using GBDT algorithm, we aimed to predict the refund probability of a certain commodity for quality reasons. My duties included data acquisition, sampling and cleaning, feature extraction, processing and filtering, model selection and optimization etc.

**2014.9.-2015.6. Research on the technology of vehicle feature recognition in video image**

* Detecting vehicles and their plates, logos in images with OpenCV and AdaBoost algorithms, the images could be under different illumination, angle of view and scene;
* Extracting and fusing Multi-features (HOG, LBP) of targets, implemented recognition functions of vehicle type (SVM), color (SVM), plate characters (ANN) and logos (CNN);
* Published a patent "Rapid cascade detection and recognition method of vehicle logo".

**2014. 6.-2014.9. Shanghai Boshi Co., Ltd Software Engineer (intern)**

* Detecting human face and eyes in images with OpenCV (haar features + cascade classifier);
* Designing fatigue state recognition algorithm, the accuracy exceeded 90% in our test images.

**2013.8.-2014.6. R&D of virtual reality simulation software based on Vega/OSG**

* A real-time 3D simulation system with combat background and military targets is completed;
* The infra-red module is implemented in order to identify the authenticity of military targets;

Skills

* Skilled C/C++, data structure and algorithm; Skilled use of ML algorithms and open source libraries such as OpenCV, Qt, OSG etc.; Familiar with Linux, Vim, Shell; Knowledge of MapReduce and SQL; Experience in massive data processing and distributed development;
* Grade of English: CET 6, Proficient use of Matlab, Photoshop, Corel VS, Latex etc.;

Extra

* GPA rank: **top 5%**; Scholarship: Academic scholarship twice, CASC scholarship **(4%)** once; My research work was published in *International Journal of Control* (SCI).
* Contest: First prize in "Tsien Hsueshen Cup" science and technology innovation contest (**9%**), third prize in " HUAWEI Cup" mathematical modeling contest;
* As the minister of propaganda department of SJTU SEIEE graduate union, our summer social practice was awarded as one of the top-10 social practice projects in Shanghai.