陈 钢

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教育经历

中国科学院大学   2015.9 - 2018.7
计算机应用技术 硕士

郑州大学   2011.9 - 2015.7
计算机科学与技术 学士

项目经验

人车检测项目   *2016.11 - 现在*

· 介绍：在室外监控场景的图片中检测人和车辆，并且预测检测到的人的属性和身体部件的位置，和车的品牌和种类。

· 职责：负责人和车辆的检测模块，通过反卷积放大特征层和使用难例挖掘优化深度神经网络 PVANET，使得在同样的每秒 29 帧的检测速度下，各个目标召回率得到提升，其中行人头部的召回率提升 21%。

纹身识别项目   *2016.10 - 2017.5*

· 介绍：在存有 10 万张图片的数据库中，检索不同角度、光照下拍摄的同一纹身图像。

· 职责：清洗和标注纹身数据，并利用该数据训练纹身分类、检测和识别网络。利用纹身分类和检测网络去除不包含纹身的图片和区域，并用利用识别网络提取出纹身特征，进行纹身图像检索。

校园图书分享 APP   *2015.3 - 2015.5*

· 介绍：可以发布、浏览和聊天的图书分享 APP。

· 职责：负责软件的总体设计和开发。

荣誉奖励

· 一等奖 第 5 届蓝桥杯全国软件设计竞赛总决赛   2014
· 铜奖 2 次第 38 届 ACM/ICPC 亚洲区域赛   2013
· 第一名 3 次 第 5 - 7 届河南省大学生程序设计竞赛   2012 - 2014
· 国家励志奖学金   2013

实习经验

百度地图   *2015.3 - 2015.5*
研发实习生   北京

· 从百度地图 8 千万的兴趣点中，优化了 250 万兴趣点的导航坐标，约 3%。

· 利用导航 GPS 日志数据生成用户行车和导航轨迹，并用此来计算和分析偏航点。

技能

编程语言	C/C++, Python, Java, Shell
工具	Caffe, Git, Vim
英语	CET-4, CET-6

CHEN GANG

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EDUCATION

University of Chinese Academy of Sciences   *September 2015 - July 2018*
M.S. in Computer Applications Technology

Zhengzhou University   *September 2011 - July 2015*
B.S. in Computer Science and Technology

PROJECTS

Person and vehicle detection project   *Nov 2016 - Present*

· Introduction: Detect bounding boxes of persons and vehicles in outdoor surveillance images, and predict detected persons' attributes and locations of body parts, meanwhile predict detected vehicles' types and brands.

· Responsibility: Develop person and vehicle detection module, which use deconvolution upscaling feature maps and online hard examples mining to optimize deep neural network PVANet, and improved every target detecting recall including person's head 21% recall improvement while still remain 29 frames per second detecting speed.

Tattoo identification project   *Oct 2016 - May 2017*

· Introduction: Retrieve same tattoos took in different angles and lighting environment from the 100 thousand images database.

· Responsibility: Clean and annotate tattoo images, with which train tattoo classification, detection and identification deep neural network. Use the classification and detection network to remove images or images' area which don't include tattoo, and use identification network to extract features that used to retrieve tattoo images.

Campus book sharing APP   *March 2015 - May 2015*

· Introduction: An Android APP to post and gain information of books, and to chat with other users, which is implemented in Java and PHP.

· Responsibility: responsible for software's overall design and development.

HONORS

· First Prize, The 5th Blue Bridge Cup National Software Contest Finals, First Prize   2014
· 2 Bronze Medals, The 38th ACM-ICPC Asia Regionals   2013
· First place 3 times, The 5th - 7th ACM Henan Provincial Programming Contest   2012-2014
· National Encouragement Scholarship   2013

EXPERIENCE

Baidu Map   *March 2015 - May 2015*
RD Intern   *Beijing*

· Optimized 2.5 million navigation coordinates of points of interest (POI) of 80 million POI in Baidu Map, about 3%.

· Generated users driving and navigation paths according navigation GPS log files, which used to compute and analyze yaw points.

TECHNICAL STRENGTHS

Computer Languages	C/C++, Python, Java, Shell
Tools	Caffe, Git, Vim
English	CET-4, CET-6