

A Video Based Vehicle Detection And Classification System

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A Video Based Vehicle Detection

Face Detection Basics. The objective of the program given is to detect object of interest(Car) in video frames and to keep tracking the same object. This is an example of how to detect vehicles in Python. Why Vehicle Detection?

OpenCV Python program for Vehicle detection in a Video ...

Specifically, we use a lightweight model: `ssd_mobilenet_v1_coco` that is based on Single Shot Multibox Detection (SSD) framework with minimal modification. Though this is a general-purpose

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detection model (not specifically optimized for vehicle detection), we find this model achieves the balance between bounding box accuracy and inference time.

GitHub - kcg2015/Vehicle-Detection-and-Tracking: Computer ...

Vehicle detection, tracking and counting by SVM is trained with HOG features using OpenCV on c++. ... This project is not part of Udacity SDCND but is based on other free courses and challenges provided by Udacity. ... car, cycle, truck, train) detected in the input video using YOLOv3 object-detection algorithm. python yolo vehicle object ...

vehicle-detection · GitHub Topics · GitHub

Intelligent vehicle detection and counting are becoming increasingly important in the field of highway management. However, due to the different sizes of vehicles, their detection remains a challenge that directly affects the accuracy of vehicle counts. To address this issue, this paper proposes a vision-based vehicle detection and counting system.

Vision-based vehicle detection and counting system using ...

Alcohol Detection with Vehicle Controlling project helps to control the vehicle in case the driver has consumed the alcohol. An alcohol breath analyzer project should be fitted/ installed inside the vehicle. Project photographs: This project is one of the important Sensor based project ideas. The main unit of this project is an "Alcohol ...

Alcohol Detection system with Vehicle Controlling

Here is the Source for the above circuit that is based on SIM800/900 GSM Module & NEO-6M GPS Module. This code a little bit smaller and requires a little modification like replacing a mobile phone number. Thus, GPS Based Vehicle Tracking System using Arduino can be easily tested.

GPS+GSM Based Vehicle Tracking System using Arduino

Location of accident is sent in the form of Google Map link, derived from the latitude and longitude from GPS module. The Message also contains the speed of vehicle in knots. See the Demo Video at the end. This Vehicle Accident alert project can also be used as a Tracking System and much more, by just making few changes in hardware and software.

Arduino Based Vehicle Accident Alert System Project using ...

Essential Concepts you should know about Video Object Detection - Frame Differencing - Image Thresholding - Contours Finding - Image Dilation; Build a Vehicle Detection System using OpenCV . The Idea Behind Detecting Moving Objects in Videos. Object detection is a fascinating field in computer vision.

Vehicle Detection in Videos using OpenCV and Python

An edge-based app, AXIS Video Motion Detection analyzes video directly on the network video product. You avoid the need for costly central processing servers and gain easy scalability and savings on bandwidth use. It integrates with a video product's event management functions and is compatible with many video management software. You can ...

AXIS Video Motion Detection | Axis Communications

In the video, the speed of the vehicle is displayed while the vehicle is in the frame a better visualization. Note: OpenCV cannot automatically throttle a video file framerate according to the true framerate. If you use speed_estimation_dl_video.py as well as the supplied cars.mp4 testing file, keep in mind that the speeds reported will be ...

OpenCV Vehicle Detection, Tracking, and Speed Estimation ...

In current years, drowsy driver detection is the most necessary procedure to prevent any road

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accidents, probably worldwide. The aim of this study was to construct a smart alert technique for building intelligent vehicles that can automatically avoid drowsy driver impairment. But drowsiness is a natural phenomenon in the human body that happens due to different factors.

IoT-Based Smart Alert System for Drowsy Driver Detection

Integrated Vehicle Health Management - Systems of Systems Integration. Integrated Vehicle Health Management (IVHM) is the unified capability of a system of systems (SoS) to assess the current or future state of the member system health, and integrate it within a framework of available resources and operational demand.

Publications - SAE International

Amazon.com : REOLINK 4K Security Camera System, 8pcs H.265 PoE Wired Bullet 4K Cameras with Person Vehicle Detection, 4K/8MP 16CH NVR with 3TB HDD for 24-7 Recording, RLK16-810B8-A : Electronics

Amazon.com : REOLINK 4K Security Camera System, 8pcs H.265 ...

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Matlab Projects Code

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Though fire detection algorithms based on CNNs have more promotion in the detection accuracy in complex scenes than traditional algorithms, some problems still exist. First, current algorithms based on machine learning mostly considered image fire detection as a classification task, and the region proposal stage was ignored.

Image fire detection algorithms based on convolutional ...

Vehicle detection and tracking is a common problem with multiple use cases. Government authorities and private establishment might want to understand the traffic flowing through a place to better develop its infrastructure for the ease and convenience of everyone.

Vehicle detection and tracking using deep learning ...

Meet RLC-810A, PoE IP cam for person/vehicle detection. With 4K Ultra HD, smart motion alerts, remote access and more features, it offers you unrivaled home security.

Reolink RLC-810A - 4K PoE Security IP Camera with Person ...

Meet RLC-822A, smart PoE IP camera with advanced person/vehicle detection, 3X optical zoom, 4K 8MP Ultra HD visual experience, 100ft night vision, remote live view and other fantastic features.

Reolink RLC-822A - 4K 8MP Person/Vehicle Detection PoE ...

Method backbone test size VOC2007 VOC2010 VOC2012 ILSVRC 2013 MSCOCO 2015 Speed; OverFeat 24.3% R-CNN: AlexNet 58.5%: 53.7%: 53.3%: 31.4% R-CNN

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