

Computer Vision-based Traffic Monitoring System

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NVFRVIFW

Part 1 Introduction of the project

- Background and problems
- Solutions
- **Functions**
- Overall framework

Part 2 The software and display

Part 3 Q&A





Introduction of the project

Background

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Drawbacks of the current system

- Deployment of loads of devices
- High costs, low mobility
- Painful workforce

Solutions



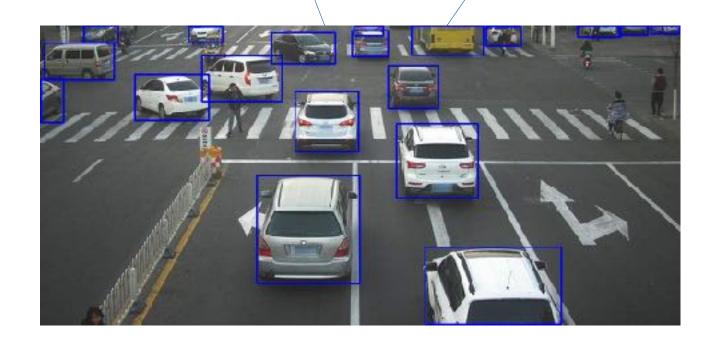
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New techniques

- Unmanned Aerial Vehicle
- Computer Vision

Benefits

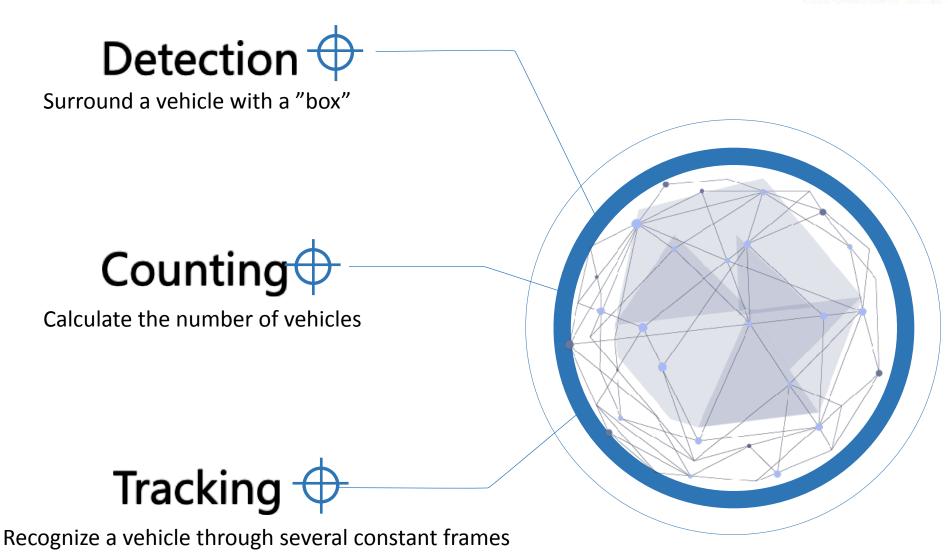
- Road condition
- Classify the vehicles



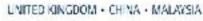
Funcitons



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套景图 www.quanjing.com

Framework

Web Application



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- Easy access
- Upload video

Front-end

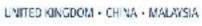
Back-end

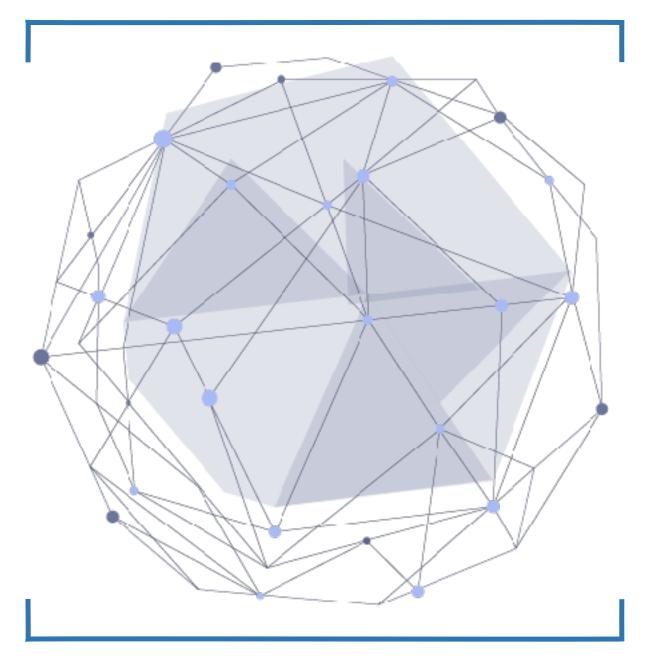
- Detection
- Tracking
- Powerful computing ability

Cloud Server

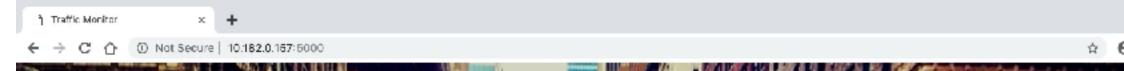
- Team 12 -

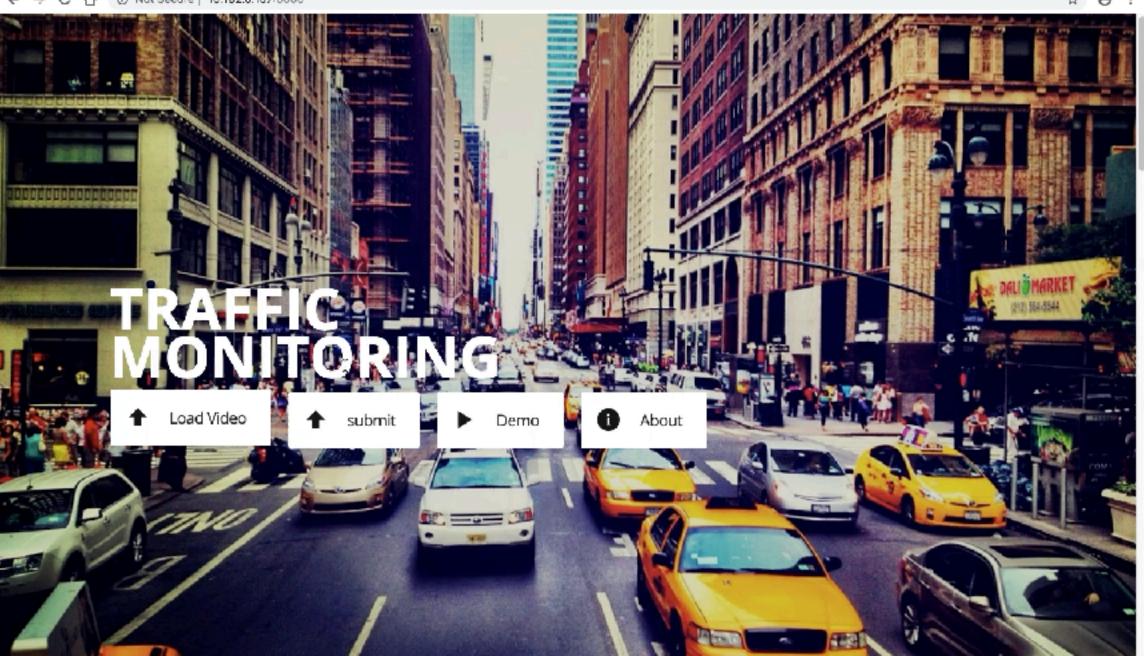






L Z _The Software and display





Future Plan



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1

Speed Calculation

Dataset

Model Training

THANK YOU







