

Introduction Final Projects

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Floor Detection



- Study and present one method of floor detection

- Problem:

- Input: Image are captured from camera

- Output: the region contains floor in image

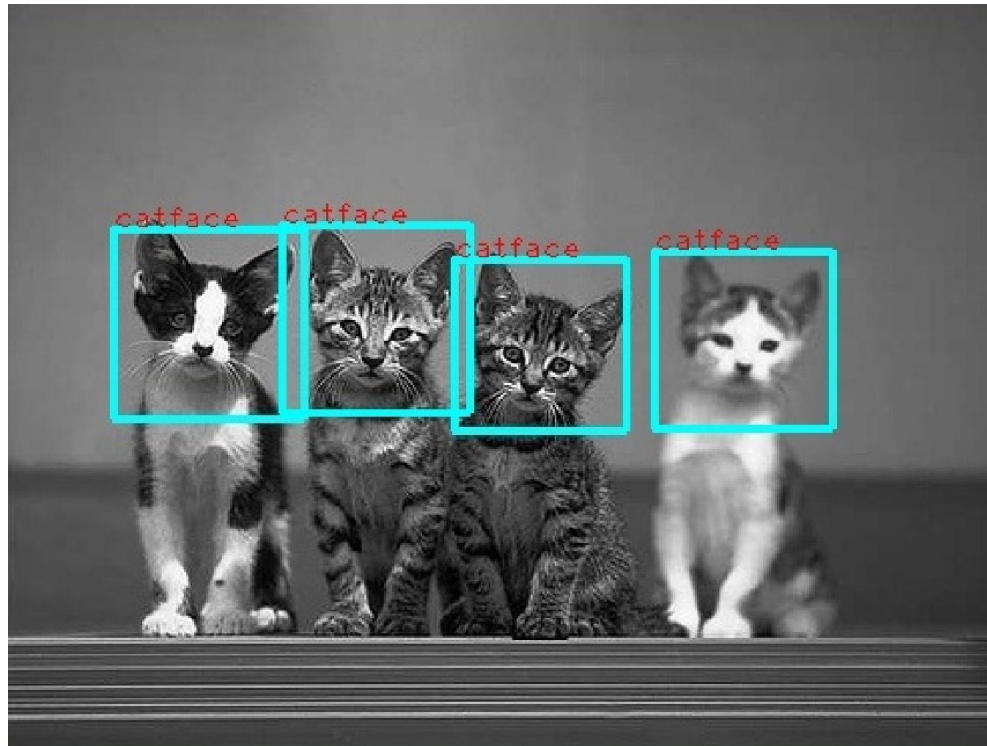


Object Detection or Classification

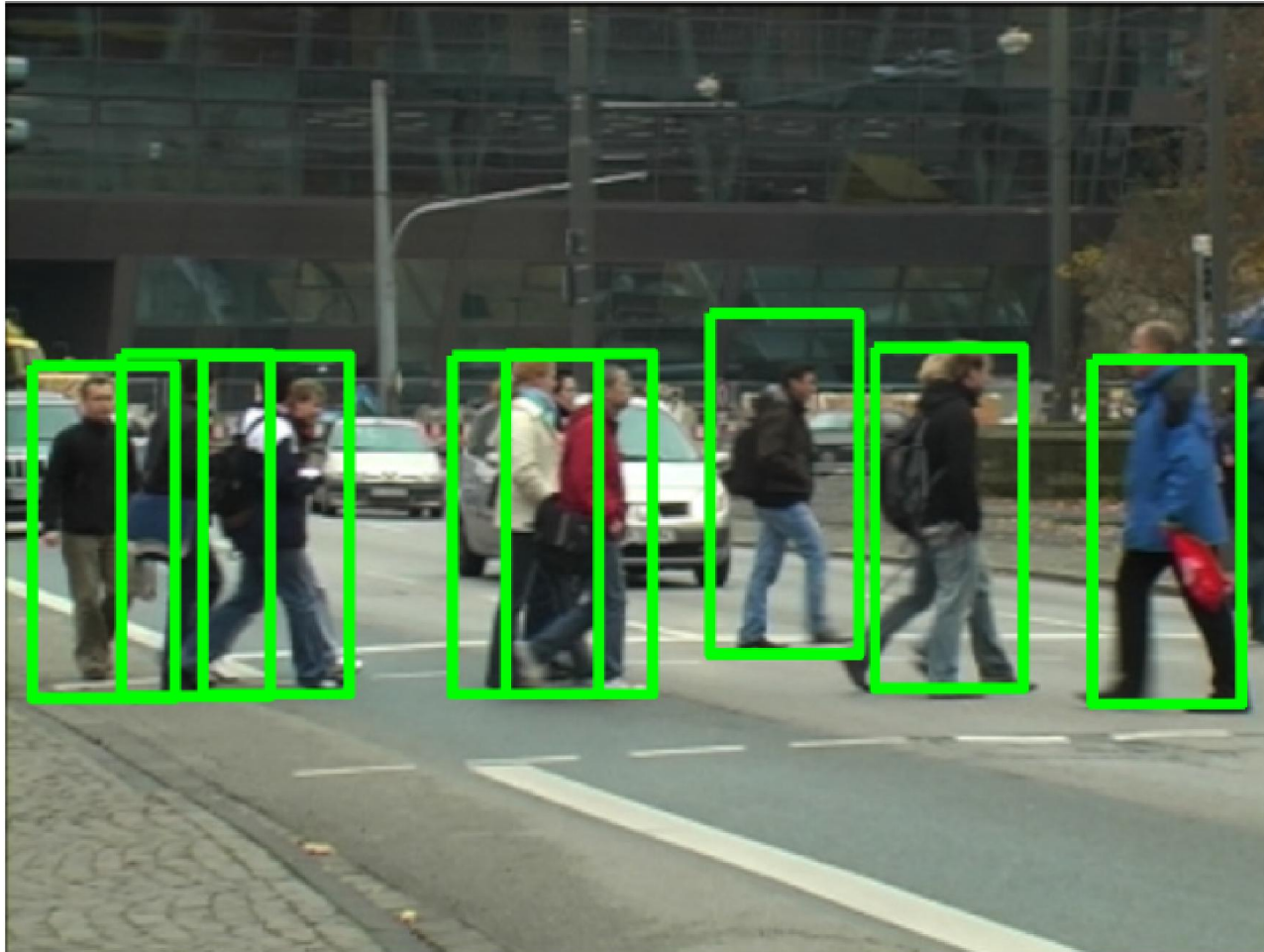


- Study and present state-of-the art for one object detection (pedestrian, car)
- Study and present state-of-the art for object classification (PASCAL challenges)
- Problem 1:
 - Input: Image
 - Output: Position or category of object in image
- Problem 2:
 - Input: Video & Object Sample
 - Output: Position of object in each frame of video

Specification



Specification



Traffic Sign Detection and Recognition



- Study and present one method of Traffic Sign detection and recognition

- Problem

 - Input: image

 - Output: Position and category of traffic sign

Example



Single Object Tracking



- Study and present one method of single object tracking

- Problem

 - Input :Video + Object 's position in frame #1

 - Output :Position of object in each frame of video

Specification



Multiple Object Tracking



- Study and present one method of multiple objects tracking

- Problem

 - Input :Video + Objects' position in frame #1

 - Output :Position of objects in each frame of video

Specification



QR Code Detection and Decoder



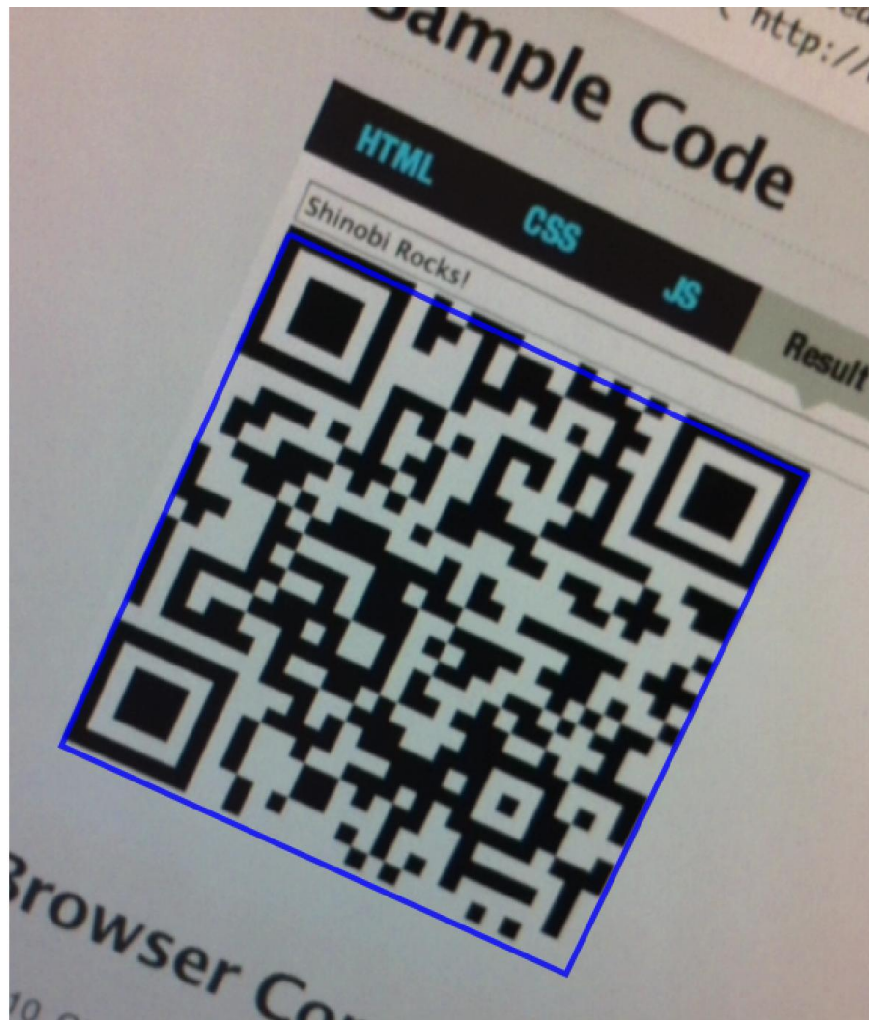
- Study and present one method of QR code detection and decoder

- Problem

 - Input : Image

 - Output :Position of QR code and contents

Specification



Text Detection and Recognition



- Study and present one method of multiple objects tracking

- Problem

 - Input :Video + Objects' position in frame #1

 - Output :Position of objects in each frame of video

Specification



Action Recognition In Video

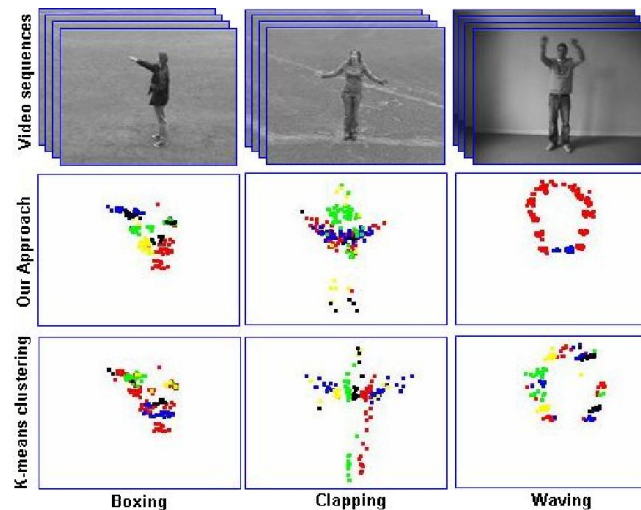


- Study and present one method of action recognition

- Problem

 - Input : Video

 - Output: category of action



Static Hand Gesture Recognition

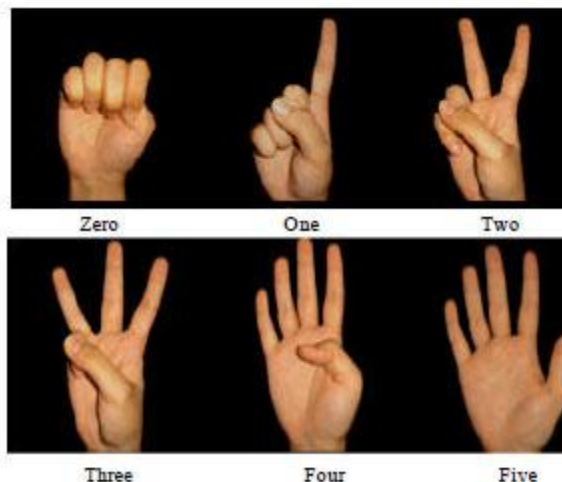


- Study and present one method of static hand gesture recognition

- Problem

 - Input : image

 - Output : category of gestures



Report Format



- Abstract
- Introduction
- Related work
- Methodology
- Experimental results
- Conclusion and future works

Questions



Thank You !!!