

Applications of YOLO in traffic management

Team member names and roles

Team name: Wisegate | **Team ID:** 5003

Niko Goijarts (20117663)

Team leader - Keep track of individual members progress to create group cohesion.

Researcher - Researching Opportunities in the application of YOLO in traffic management.

Chengwei Feng (15859291)

Minute taker - Records and stores meeting minutes.

Researcher - Researching Risks in the application of YOLO in traffic management.

Ziyi Zhang (19088416)

Web design overseer - Will create the website framework and format research uploaded to the site.

Researcher - Researching Choices in the application of YOLO in traffic management.

Definition

YOLO is an algorithm for detecting objects and providing feedback about said detected objects. We are trying to find the potential of improving traffic management with the application of YOLO.

Why we chose this topic

- This is an interesting use of image detection that could increase the efficiency of our roads.
- Could lead to fully autonomous traffic management.
- This could be an important role in the formation of smart cities

Importance of YOLO in traffic management

- Prevent long commute times and congestion through dynamic traffic lights.
- Aids in the creation of smart cities.
- Help save lives by utilising image detection to contact first responders.