

PaveScan

by

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Problem Statement

Everyday all of us rely on roads to get to work, school or anywhere else really



Road hazards:

- → Potholes
- → Unclear road signs
- → Non-functional traffic lights
- → Fragments
- → Debris



Vehicle Crashes:

- 10% increase in vehicle crashes reported by NHST



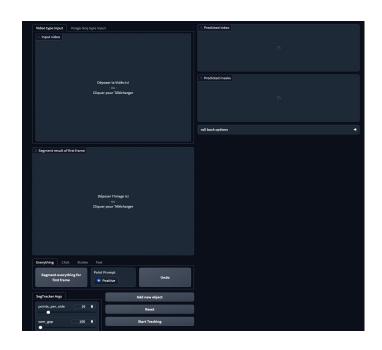
Road Examination:

- Costly
- Manual

Proposed Solution: PaveScan



Data Collection



Segment & Detect Hazards

frame_0001.jpg
frame_0002.jpg
frame_0003.jpg
frame_0004.jpg
frame_0005.jpg
frame_0006.jpg
frame_0007.jpg
frame_0008 ind
Output Format



Proposed Solution: PaveScan

dentify: car crashes,	ootholes, road hazards, traffic lights damages	
•	•	
	Detect	

Prompt





Segment Result of the First Frame

Input Video



Implementation



Target Client



Attach dashcams to garbage collection trucks



Report back in real time by sending the location of the road hazard

Demo







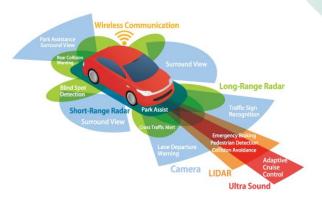
Future Work



Monitor driver vigilance



Identify the Severity of Hazards



Integrate the solution as a component in autonomous car systems