Feedback Report Generator for Drivers Team & AW Girls using Biological Sensors

Background

Traffic accidents in Japan have been decreasing, but the accidents by aged drivers (more than 65 years old) are increasing according to the report of Tokyo Metropolitan Police Department.



The main cause of the accidents by aged drivers is a lack of self-awareness about their physical inabilities. Therefore, we developed a generator of feedback report to awaken their actual driving abilities.

Features of Our Report Generator

- Generator considers your driving logs: eye movement and velocity of the vehicle.
- Feedback report is generated in a HTML format file.
- Feedback report checks whether you looked at both sides or not.
- Feedback report checks whether you kept slow speed or made pauses at intersections.
- Your driving skill is evaluated and ranked A, B, or C.



Feedback Reports





Avoiding Pedestrian



Pausing at Intersection





Generated HTML report

Your Driving Feedback Report

Log File: data/imai-log1.csv

- 1st Intersection Obstacle: Truck • 2nd Intersection 3rd Intersection with Stop Sign • 4th Intersection Obstacle: Pedestriar • 5th Intersection with Stop Sign
- Your Evaluation

1st Intersection

Between from X=6914[m] to X=7014[m]

-	[IP:127.0.0.1 PORT:5432	21] [X:6964.2 Y:3547 4]	(DX-1.00 DY-0.00) [SPE	ED(krr

Your Eye-Moving

Standard Deviation	
	X:495.1
Maximum >	K:1759.0
Minimum >	X:0.0[px

Conclusions and Future Works

Our feedback report enables you to look back your driving operations objectively without requiring the help of a driving school instructor.

- Other driving features (e.g., brake pedal) should be considered into our report. \checkmark
- \checkmark Implementation of automatic scene detectors which detect dangerous scene to improve in driving.
- \checkmark We hope to introduce our system into driving schools.

FORUM8[®] 8th CPWC



6[px] Y:202.47[px] .8[px] Y:95.31[px] 0[px] Y:453.0[px] () Y:0.0[px]

Comment

You correctly looked both sides.

Your Speed

Average	22.58[km/h]	
Standard Deviation	20.88[km/h]	
Maximum	59.16[km/h]	
Minimum	0.56[km/h]	

Comment

You should have reduced the speed slightly.





Your Evaluation Eye-Moving Score: 40 / 40 Speed Score: 54 / 60 Total Score: 94 / 100 Your Driving Evaluation is Rank A