University of Nottingham

School of Computer Science

G54REM-Coursework 2 (literature review) Safer autonomous vehicles

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Intro

The first fatal crash involving pedestrian cause by a self-driving vehicle (Zemansky, 2018). Despite that, we shouldn't be deter by the incident. A evaluation of current methods and implementation that could enable autonomous vehicles to drive safely on the road.

- ethics of who die
- probability/predict the outcome of all scenarios

Depth and speed estimation

- reviewing different disparity method to estimate depth and speed of object

Object detection

Stimulation

Dresner and Stone (2008) (Dresner & Stone, 2004)

References

Dresner, K. & Stone, P. (2004, July). Multiagent traffic management: a reservation-based intersection control mechanism. In *Proceedings of the third international joint conference on autonomous agents and multiagent systems-volume 2* (pp. 530–537). IEEE Computer Society.

Dresner, K. & Stone, P. (2008). A multiagent approach to autonomous intersection management. *Journal of artificial intelligence research*, *31*, 591–656.

Zemansky, R. (2018). How a self-driving uber killed a pedestrian in arizona. *New York Times*. Retrieved September 12, 2018, from https://www.nytimes.com/interactive/2018/03/20/us/self-driving-uber-pedestrian-killed.html