



Moral judgment and driver behaviour: A simulator study

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CARRS-Q is a joint venture initiative of the
Motor Accident Insurance Commission
and Queensland University of Technology



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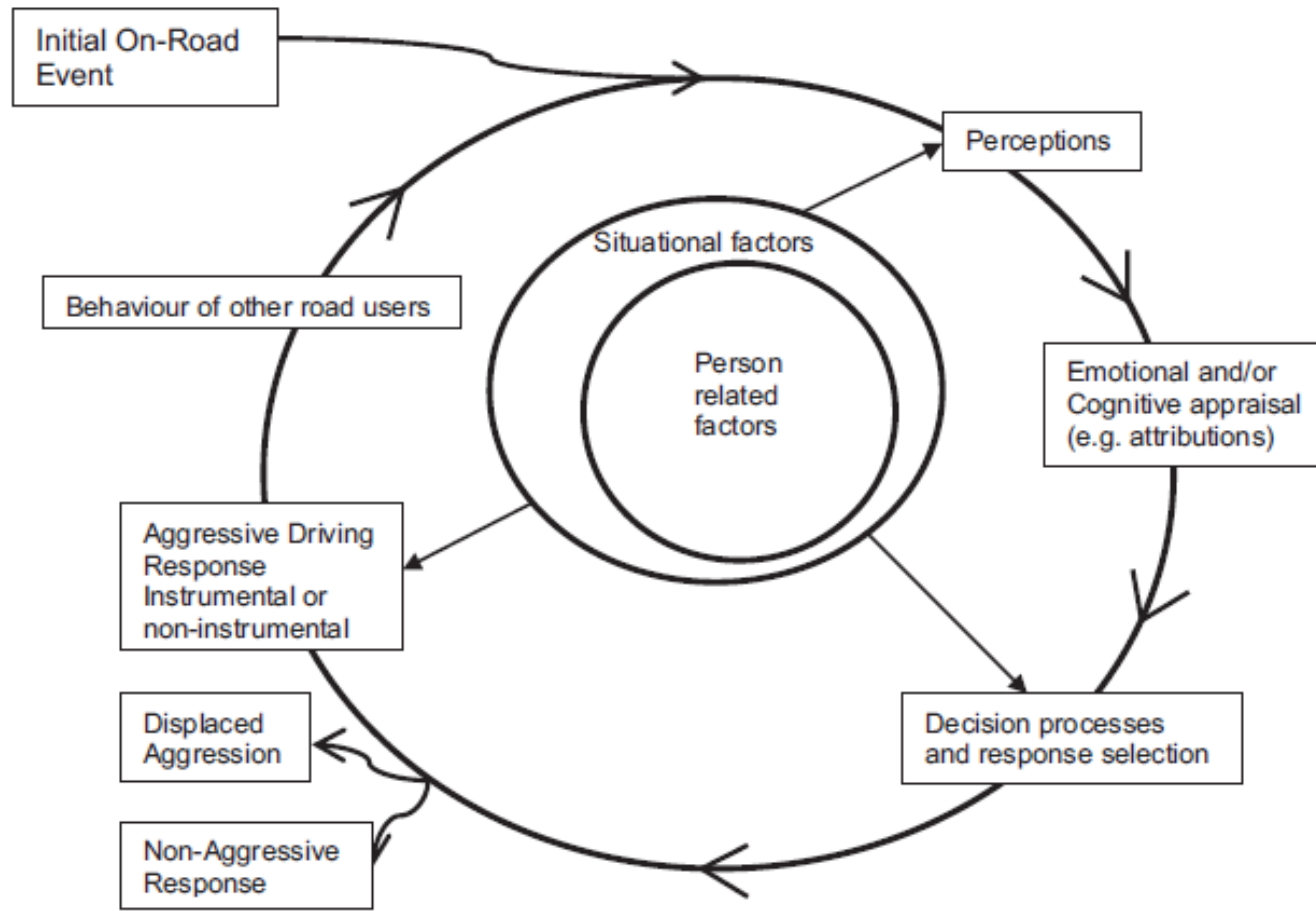
Overview

- Rationale
- Literature review: morality and driving
- Research questions
- Methodology
- Initial Data Collection
- Complementary and future work

Rationale

- Judgments of right vs wrong .
- Formal and informal road user 'rules.'
- Minimal current research into this area.
- Exploratory pilot research

Literature Review



(Soole, 2011; Lennon & Watson, 2011).

Literature Review

- 260 Brazilian university students (18-30)
- Sociomoral Reflection Measure and Driver Behavior Questionnaire.
 - small variance in Moral Judgment score in this selected sample
- Portuguese 28-item version of the Driver Behavior Questionnaire that reproduced the same four-factor structure as the British version: ordinary violations, aggressive violations, errors, and lapses.

Research Questions

- Individual Differences
 - Ethical judgments
 - Cognitive Reflection
 - Judgment styles
 - Risk Attitudes
- Behavioural Outcomes
 - Risk taking: Eg. Running red lights, speeding, gap acceptance, stopping for a train crossing.
 - Judgments of self and others following collisions

Method

- Drivers aged 18 or over
- Australian provisional or open license
- Driving situations
 - Cyclists cutting in front at a traffic light
 - Pedestrian crossing
 - Gap acceptance, orange light running
 - Unavoidable and avoidable crash scenarios
 - Measuring speed, distance, verbal judgements etc

Method

Unavoidable Crash Scenario



Initial Data Collection

- Motion sickness
- Too few participants for definitive data currently

Complementary Research

- Alexia Lennon & Lauren Shaw – Aggressive driving
- Driver etiquette judgments – focus groups

Conclusion

- Expanding current minimal research on morality, judgment, decision making and driver behaviour
- Too early for definitive results
- Driver etiquette, judgments and aggression possible link.

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References

- Bianchi, A & Summala, H. (2002). Moral judgment and drivers' behaviour among Brazilian students. *Psychological Reports* , 91, 759-766.
- Blais, A.-R., & Weber, E. U. (2006). A Domain-Specific Risk-Taking (DOSPERT) scale for adult populations. *Judgment and Decision Making*, 1(1), 33.
- Davis, M. H. (1983). Measuring individual differences in empathy: Evidence for a multidimensional approach. *Journal of Personality and Social Psychology*, 44(1), 113-126. doi: 10.1037/0022-3514.44.1.113
- Dohmen, T., Falk, A., Huffman, D., Sunde, U., Schupp, J., & Wagner, G. G. (2011). Individual risk attitudes: Measurement, determinants, and behavioral consequences. *Journal of the European Economic Association*, 9(3), 522-550. doi: 10.1111/j.1542-4774.2011.01015.x
- Forsyth, D. R. (1980). A taxonomy of ethical ideologies. *Journal of Personality and Social Psychology*, 39(1), 175-184. doi: 10.1037/0022-3514.39.1.175

References

- Frederick, S. (2005). Cognitive reflection and decision making. *The Journal of Economic Perspectives*, 19(4), 25-42. doi: 10.1257/089533005775196732
- Lennon, A., & Watson, B. (2011). “Teaching them a lesson?” A qualitative exploration of underlying motivations for driver aggression. *Accident Analysis and Prevention*, 43(6), 2200-2208.
- Mirels, H. L., Greblo, P., & Dean, J. B. (2002). Judgmental self-doubt: beliefs about one’s judgmental prowess. *Personality and Individual Differences*, 33(5), 741-758.
- Soole, D.W., Lennon, A.J., Watson, B.C., & Bingham, C.R. (2011). Towards a comprehensive model of driver aggression: a review of the literature and directions for the future. In Ferraro, Christina N. (Ed.) *Traffic Safety*. Nova Science Publishers.

Questions?

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