

Tranzinfo Hot Topic

Number 2 (Second edition) 2007

Driver Distraction

This is an update of a Hot Topic issue first released in 2005
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A selection of recent publications and resources on driver distraction and attention issues.

Contact your organisation's library to obtain items not available online.

1. A study of conversation performance using mobile phones while driving

Luke T, Smith R, Parkes AM and Burns PC
International Conference of Traffic and Transport Psychology, 2005
Elsevier, pages 369-381

Report of a study comparing conversation performance in face to face, driver to passenger and driver hands free mobile phone usage situations.

2. Acceptable distraction? Evaluating the effects of in-vehicle technologies on driving

Reed-Jones J, Trick L and Matthews M
Proceedings of the Transportation Research Board 86th Annual Meeting, Transportation Research Board, Washington DC, 2007
16 pages

Report on a driving simulator study examined hazard perception and driver behaviours whilst managing two in-vehicle tasks – radio tuning and mobile phone dialling.

3. Driver distraction in long haul truck drivers

Hanowski RJ, Perez MA and Dingus TA
Transportation Research Part F, Traffic Psychology and Behaviour, 2005
Volume 8, Issue 6, pages 441-458

This is a report of a naturalistic field study, analysing data collected from heavy vehicle drivers completing their regular deliveries. Of the 2737 crashes and near-crashes, 178 were attributed to driver distraction.

4. Driving performance and digital billboards: final report

Lee SE, McElheney MJ and Gibbons R
Virginia Tech Transportation Institute, USA, 2007
89 pages

Sponsored by the Foundation for Outdoor Advertising Research and Education in the United States, this study examined driver responses to billboard advertising in day and night situations using an instrumented vehicle.

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5. Driving with distraction in Parkinson disease

Uc EY and others
Neurology, 2006
Volume 67, Issue 10, pages 1774-1780

This paper documents a United States study of the distraction issues and driver performance levels of people diagnosed with Parkinson's disease.

6. Inquiry into driver distraction

Road Safety Committee, Parliament of Victoria, Australia, 2006
200 pages

Report of a parliamentary inquiry into driver distraction issues. Includes examination of attention issues as a road crash cause, the distraction levels of mobiles phones, vehicle electronics and advertising material and countermeasures such as law enforcement.

[Click here](#)

7. Impact of presence of passengers on freeway crash potential

Lee C and Abdel-Aty MA
Proceedings of the Transportation Research Board 86th Annual Meeting, Transportation Research Board, Washington DC, 2007
18 pages

This modelling study from the United States examines the impact of passenger presence on driver crash risk when travelling on freeways.

8. International conference on distracted driving: summary of proceedings and recommendations: Toronto, Canada, October 2-5, 2005

Hedlund J, Simpson H and Mayhew D (eds)
Traffic Injury Research Foundation and Canadian Automobile Association, 2006
32 pages

This report on a conference on driver distraction held in Canada in October 2005 aims to summarise key points from the conference presentations as well as document the conclusions and recommendations from the workshops. The recommendations were generated by conference participants based on their collective conclusions about distracted driving.

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9. Perceptions of driver distraction by cellular phone users and nonusers

Wolgater MS and Mayhorn CB
Human Factors, 2005
Volume 47, Issue 2, pages 455-467

Data obtained from a survey of over 300 mobile phone users and non users is analysed in this paper, including their use whilst driving and beliefs on the effects of phone usage on driver performance.

10. The 100-car naturalistic driving study: Phase II: results of the 100-car field experiment

Dingus TA and others
National Highway Traffic Safety Administration, Washington DC, 2006
856 pages

Description of the methods employed in this large-scale field study using instrumented vehicles in the United States conducted over more than a twelve month period to collect driver behaviour data.

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11. The effects of distractions on the crash types of teenage drivers

Nayans DM and Boyle LNG
Accident Analysis and Prevention, 2007
Volume 39, Issue 1, pages 206-212

This paper documents the development of a model to predict young driver crash type involvement with the following factors: cognitive, mobile phone related, in-vehicle, and passenger-related distractions.

12. The effects of mobile phone use on pedestrian crossing behaviour at signalised and unsignalised intersections

Hatfield J and Murphy S
Accident Analysis and Prevention, 2007
Volume 39, Issue 1, pages 197-205

A report of an observational field survey of over 500 pedestrians, comparing the safety of crossing behaviours for pedestrians using and not using a mobile phone, with gender differences in behaviour particularly noted.

13. The effects of text messaging on young novice driver performance

Hosking SG, Young KL and Regan MA
Monash University Accident Research Centre, Clayton, Australia, 2006
26 pages

This driving simulator study examined the effect that the receiving and sending of mobile phone text messages had on novice driver performance, including road position and situational responses.

[Click here](#)

14. The impact of driver distraction on road safety: results from a representative survey in two Australian states

McEvoy SP, Stevenson MR, Woodward M
Injury Prevention, 2007
Volume 12, Issue 4, pages 242-247

This paper reports the results of a cross sectional driver survey conducted in New South Wales and Western Australia on the prevalence and effects of distracting behaviours whilst driving.

15. The impact of driver inattention on near crash/crash risk: an analysis using the 100 car naturalistic driving study data

Klauer SG and others

National Highway Traffic Safety Administration, Washington DC, 2006

192 pages

An analysis of data from the large scale instrumented vehicle study conducted by the Virginia Tech Transportation Institute, concentrating on an in-depth examination of driver inattention.

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