

NTUA Road Safety Update - January 2016



National Technical University of Athens
Road Safety Update

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January 2016

European Commission - Road Safety Country Overviews 2015



The Road Safety Unit of DG MOVE of the European Commission published recently the 2015 Edition of the EU Road Safety Country Overviews with the active contribution of NTUA, KfV and ERF. The EU Road Safety Country Overviews are based on most recent disaggregate data for all EU countries from the CARE Database of the European Commission as well as on structured information gathered from the EU Member States.

These Road Safety Country Overviews consist of five analysis sections (Social costs, Number killed and injured, Safety performance indicators, Safety measures and programmes, Structure and culture) and one synthesis section providing a comprehensive picture of current road safety facts and challenges in each EU country. [LINK](#)

WHO - European facts and the Global status report on road safety 2015



A report on the European facts and the Global status report on road safety 2015 has now been published by the World Health Organisation (WHO). In 2013, almost 85.000 people died from road-traffic injuries in the WHO European Region. Although the regional mortality rate is the lowest among WHO regions (9.3 deaths per 100 000 population), the rates of road traffic deaths vary widely in between European countries. More systematic efforts are needed if the global target of a 50% reduction in road crash deaths is to be achieved by 2020. NTUA contributed to the peer review of this Report. [LINK](#)

UNECE Report - Together on the road to safety 2015



UNECE has published a Report covering in detail the 11 goals that have been derived from the five pillars of the Global Plan to form its strategic approach to road safety during the Decade. It provides a comprehensive overview, including the status and key results of its goals, as well as descriptions of specific UNECE ITC initiatives and information on the challenges the overall road safety community faces. One of the main conclusions of this report is that political will and the introduction and use of national strategies are likely to be the difference makers in helping to reach the main goal: halving the number of road traffic deaths and injuries by 2020. [LINK](#)

GRSP interactive mapping tool 2015



The Global Road Safety Partnership (GRSP) has launched a new interactive mapping tool on its website. This interactive map draws on a database of over 11,000 cells and allows the user to quickly and easily find information and data of interest. The interactive map features three primary tabs, enabling searching by GRSP Activity, IFRC Engagement or by Global Crash Data from the WHO Global Status Report on Road

Safety 2015.

This tool comes as a result of multiple surveys into stakeholder needs and will be constantly updated with the latest data so that it becomes a 'go to' entry point for a wealth of road safety information, data, tools and resources that are being built into the GRSP website. [LINK](#)

Eurostat - a new tool for road accident statistics 2015



EUROSTAT is now publishing road accident statistics using CARE data base as data source. The user can exploit the user friendly on-line EUROSTAT database and have also the EUROSTAT transport accident statistics explained.

According to Eurostat statistics on the causes of death, the number of people in the European Union (EU) who died as a result of transport accidents (covering all transport modes) fell by 40.8 % for men and 43.8 % for women between 2004 and 2012, accounting for 0.6 % of total deaths in 2012.

European Parliament - Road safety and car weight and volume 2015



The European Parliament's Committee on Transport and Tourism has recently published a study prepared by the UK Transport Research Laboratory on the Impact of Higher or Lower Weight and Volume of Cars on Road Safety, particularly for Vulnerable Users. The study provides an analysis of necessary technological changes, in order to improve the impact of higher or lower weight and volume of cars on road safety, particularly for, but not limited to vulnerable users. [LINK](#)

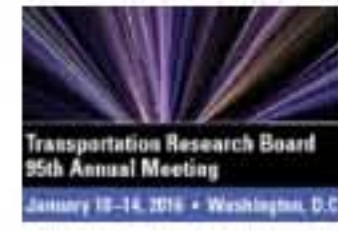
SafetyCube - Developing an Innovative Road Safety DSS - Newsletter 2016



SafetyCube is a research project funded by the European Commission under the Horizon 2020, the EU Framework Programme for Research and Innovation, in the domain of Road Safety. The project started on May 1st, 2015 and will run for a period of three years with primary objective to develop an innovative road safety Decision Support System (DSS) that will enable policy-makers and stakeholders to select and implement the most appropriate strategies, measures and cost-effective approaches to reduce casualties of all road user types and all severities in Europe and worldwide. NTUA is actively contributing to all phases of the SafetyCube project. [LINK](#)

The first SafetyCube newsletter with the latest project developments is now available. [LINK](#)

TRB Annual Meeting - Washington 2016



The Transportation Research Board (TRB) 95th Annual Meeting was held in Washington, D.C., in 10-14 January 2016. The meeting program covered all transportation modes, with more than 5,000 presentations in nearly 800 sessions and workshops, addressing topics of interest to policy makers, administrators, practitioners, researchers, and representatives of government, industry, and academic institutions. More than 35 sessions and workshops focused on the spotlight theme for the 2016 meeting:

Research Convergence for a Multi-Modal Future and more than 75 sessions addressed one or more of three "hot topics": Transformation Technologies, Resilience and Transportation and Public Health. [LINK](#)

NTUA presentations concerned:

- Development of a training course for road safety auditors in Greece
- Road, traffic and human factors of pedestrian crossing behaviour: integrated choice and latent variables models
- Modeling stopping sight distance on left-turn curves of freeways overlapped with crest vertical curves
- SafetyCube - Safety Culture, Benefits and Efficiency

ITS Hellas - Intelligent Transportation Systems Conference - Athens 2015



A conference on intelligent transportation systems and related developments in Greece, organised by ITS Hellas took place with great success in Athens, on 15-16 December 2015. Aim of the conference was to discuss the wide application of Intelligent Transport Systems (ITS) in Greece, as a mean of economic development and prosperity and to ensure the effectiveness, efficiency and transport safety for the benefit of users and the environment. [LINK](#)

NTUA presentation concerned: 'Intelligent transportation systems and big data for the improvement of driver behavior and safety' [LINK](#)

Transport Research Arena, Warsaw 2016



The Transport Research Arena 2016 (TRA 2016) will take place in Warsaw, Poland - 18-21 April 2016. TRA is the major European conference on transport, supported by the European Commission (EC), the Conference of European Road Directors (CEDR) and the four European Technology Platforms on surface transport: the European Road Transport Research Advisory Council (ERTRAC), the European Rail Research Advisory Council (ERRAC), WATERBORNE TP, and the Alliance for Logistics Innovation through Collaboration (ALICE).

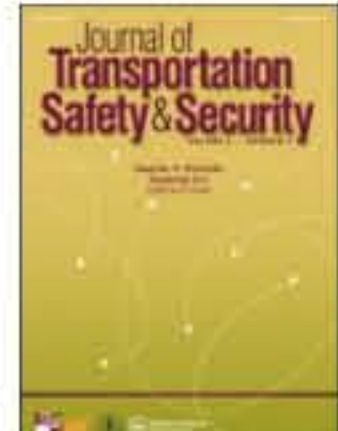
TRA 2016 Conference will contribute to innovation in sustainable mobility for Europe, by bringing together all the stakeholders of the transport system. The main theme of TRA 2016 is - MOVING FORWARD Innovative Solutions for Tomorrow's Mobility. TRA 2016 seeks to reflect the multidisciplinary nature of the transport sector and, for this reason, addresses all stakeholders in both the public and private sectors and all professionals, regardless of their roles (researchers, practitioners, designers, constructors, operators, administrators, policy makers etc.). **Early bird subscription deadline is set for February 15th, 2016.** [LINK](#)

Accident Analysis & Prevention - Call for papers: Road Safety Data Considerations 2016



A Special Issue of Accident Analysis & Prevention focusing on Road Safety Data Considerations is now calling for papers that address issues related to road safety data and methods that can be applied at all stages of data handling (collection, processing and analysis). Moreover, the presentation of applications utilizing innovative road safety data analysis is encouraged, particularly in emerging regions (that typically lack detailed and updated crash and casualty information), focusing on methodological adaptations for tackling information scarcity, or other limitations of technology transfer. [LINK](#)

Journal of Transportation Safety & Security - Call for papers: Driving Simulation Experiments and Behavior Analysis 2016

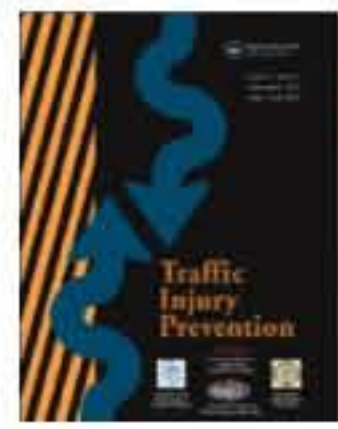


A Special Issue of the Journal of Transportation Safety & Security focusing on Driving Simulation Experiments and Behavior Analysis is now calling for papers. Topics of interest include, but are not limited to the following:

- driver behavior and human factors
- driver perception and modeling
- driver distraction
- impaired driving performance
- infrastructure design
- innovative data collection and analyses
- design of simulator scenarios

- simulator sickness (e.g. simulation fidelity) [LINK](#)

Exploring the association between working memory and driving performance in Parkinson's disease 2015



A paper titled 'Exploring the association between working memory and driving performance in Parkinson's disease' co-authored by Sofia Vardaki, Hannes Devos, Ion Beratis, George Yannis and Sokratis Papageorgiou is now published in Traffic Injury Prevention. The aim of this study was to explore whether varying levels of operational and tactical driving task demand differentially affect drivers with Parkinson's disease (PD) and control drivers in their sign recall. Drivers of the control group performed better than drivers with PD in a sign recall task, but this trend was not statistically significant ($p = 0.43$). Also, regardless of group membership, subjects' performance differed according to varying levels of task

demand. Performance in the sign recall task was more likely to drop with increasing task demand ($p = 0.03$). This difference was significant when the variation in task demand was associated with a cognitive task, i.e., when drivers were required to apply the instructions from working memory. Although the conclusions drawn from this study are tentative, the evidence presented here is encouraging with regard to the use of a driving simulator to examine isolated cognitive functions underlying driving performance in PD. With an understanding of its limitations, such driving simulation in combination with functional assessment batteries measuring physical, visual and cognitive abilities could comprise one component of a multi-tiered system to evaluate medical fitness to drive. [DOI](#)

NTUA Road Safety Observatory in figures 2015



2015 was a very intensive year for the NTUA Road Safety Observatory as presented at the respective 2015-in-figures infographic highlighting nrsro activities on research and web presence but also on work and sports.

The intensive 2015 nrsro activity is demonstrated by the active contributions to 12 research projects, together with the 54 papers in scientific journals and conferences and the more than 38.500 visits of the nrsro website, whereas the 65.368 emails handled and the 3.088km run are proving the high nrsro efficiency and fitness to perform! [LINK](#)

NTUA Road Safety Observatory started tweeting in 2016



The NTUA Road Safety Observatory is now posting and sharing on Twitter (@nrsro_ntua_gr) all new Greek, European and international road safety knowledge, information and data published at the nrsro website (www.nrsro.ntua.gr). Simply follow us on Twitter: @nrsro_ntua_gr

This Road Safety Update aims to support frequently the Greek and the International Road Safety Community with current key road safety knowledge and data, which are gathered, analysed and organised within the research activities of the Department of Transportation Planning and Engineering of the National Technical University of Athens.

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About NRSO



The mission of the NTUA Road Safety Observatory (www.nrsro.ntua.gr) is to support the Greek and the International Road Safety Community with current key road safety knowledge and data, which are gathered, analysed and organised within the research activities of the Department of Transportation Planning and Engineering of the School of Civil Engineering of the National Technical University of Athens, as well as within co-operations with various national and international road safety organisations.

The NTUA Road Safety Observatory has been developed within the framework of two European Union co-funded research projects, namely SAFETYNET - Development of the European Road Safety Observatory (2004-2009) and DACOTA - Road Safety Data Collection, Transfer and Analysis (2010-2012), with Scientific Responsible for NTUA, Professor George Yannis.