



NTUA Road Safety Update - March 2014



Multilevel analysis in road safety research 2013



A paper titled "Multilevel analysis in road safety research" co-authored by Emmanuelle Dupont, Eleonora Papadimitriou, Heike Martensen and George Yannis is now published in the Journal of Accident Analysis and Prevention. This paper summarizes the statistical and conceptual background and motivations for multilevel analyses in road safety research. It then provides a review of several **ML analyses applied to aggregate and disaggregate (accident) data**. In each case, the relevance of ML modelling techniques is assessed by examining whether ML model formulations (i) allow improving the fit of the model to the data, (ii) allow identifying and explaining random variation at specific levels of the hierarchy considered, and (iii) yield different (more correct) conclusions than single-level model formulations with respect to the significance of the parameter estimates. The evidence reviewed offers different conclusions depending on whether the analysis concerns aggregate data or disaggregate data. In the first case, the application of ML analysis techniques appears straightforward and relevant. The studies based on disaggregate accident data, on the other hand, offer mixed findings: computational problems can be encountered, and ML applications are not systematically necessary. The general recommendation concerning disaggregate accident data is to proceed to a preliminary investigation of the necessity of ML analyses and of the additional information to be expected from their application. [DOI»](#)

ETSC PIN talk in Athens 2014



A Road Safety debate on **Greece's Road Safety in a European context** was organised by the European Transport Safety Council (ETSC), the Road Safety Institute "Panos Mylonas" and the Hellenic Institute of Transport, under the auspices of the Greek EU Presidency, on March 19th, 2014, in Athens. [LINK](#)

This was the 38th Road Safety Performance Index debate (PIN Talk) organised by ETSC since the first PIN talk in Athens on November 2006. The Road Safety Performance Index (PIN) Programme was launched in 2006 aiming to compare country performances in road safety, issuing every year the PIN Annual Report. More than 100 experts and stakeholders participated in the very interesting discussions on measuring safety performance in Europe and in Greece. [LINK](#)

NTUA Associate Professor George Yannis made a presentation on Monitoring road safety policies and performance. [F](#)

RTSA Serbia - Transport safety performance indicators, Belgrade 2014



An International Seminar on Transport Safety Performance Indicators, organised by the Road Traffic Safety Agency of Serbia, with the support of the European Transport Safety Council (ETSC), the Faculty of Transport and Traffic Engineering of the Belgrade University and the Academy of Criminalistic and Police Studies, took place in Belgrade on 6 March 2014. [LINK](#)

Transport safety performance indicators constitute a great management tool in the hands of decision makers in order to monitor efforts and progress in the field of road traffic safety. The RTSA of Serbia has launched a comprehensive programme of measuring road safety performance in Serbia, which was presented at this international seminar, attended by more than 100 national and international road safety decision makers, stakeholders and experts. All presentations are available [LINK](#)

NTUA road safety presentation concerned: 'An application of a road network safety performance indicator' [F](#)

European Parliament - New rules for technical testing of vehicles 2014



The European Parliament adopted with a clear majority the roadworthiness package, a set of measures to toughen up vehicle checks and to widen their scope. The three directives that constitute the roadworthiness package concern **periodic roadworthiness tests, technical roadside inspections for commercial vehicles and vehicle registration documents**. The new directives replace existing EU rules setting minimum standards for vehicle checks that date back to 1977, with only minor updates. These new rules aim to avoid more than 36,000 accidents a year linked to technical failure. [LINK](#)

IRU - Guidelines for safe load securing 2014



The International Road Union (IRU) has published new guidelines for safe load securing in road transport. The guidelines aim to provide a **guide for safe and effective load securing** for all situations that may occur in normal traffic conditions. They should also serve as a common basis for both practical application and enforcement of load securing. [LINK](#)

WHO - Global database of road safety advertisements 2014



The World Health Organisation has launched a new library of **road safety campaign videos from around the world**. The database can be searched by topic, language and region and is designed to offer inspiration to campaigners planning public awareness efforts on the key road safety topics. [LINK](#)

IRF 50th World Road Statistics 2013



The International Road Federation (IRF) released recently the 50th Anniversary Edition of the World Road Statistics (WRS). IRF and Patron Sponsor Michelin produced this special 50th Anniversary Edition of the WRS which includes 12 years of data, providing a **comprehensive statistical picture of international road and land transport from the start of the millennium**. This report is a source of strategic data on road networks, traffic and inland transport. It contains trends in subject areas like road safety, traffic volumes and vehicle usage and can be used as a benchmark for the performance in key indicators like road expenditure, energy consumption and emissions. [LINK](#)

MS-Hanover - 6th Expert Symposium on Accident Research 2014



The 6th International Expert Symposium on Accident Research (ESAR) will take place in **Hanover on 20-21 June 2014**. ESAR is organised by the Medical School of Hanover, the University of Technology of Dresden and the Federal Highway Research Institute of Germany and it is a scientific colloquium which can be seen as a platform for exchanges of information on accident research issues. Representatives from authorities as well as from medical and technical institutions come together to discuss new research issues and exchange experiences on accident prevention and methodologies of accident reconstruction. The goal of ESAR is to give the opportunity to all kind of studies on Accident Investigation Methodologies, Accident Analysis, Active and Passive Safety, Injury mechanisms and Injury Prevention to an audience of experts from government, industry and other researchers from all parts of the world. [LINK](#)

IOAS - Courtesy on the road campaign - 2014



The Road Safety Institute (R.S.I.) "Panos Mylonas" and the Hellenic Institute of Transportation Engineers (H.I.T.E.) co-organize for the seventh consecutive year the **Panhellenic Nationwide Road Safety Week** with many activities throughout the country. This year the events will take place under the auspices of the Greek Presidency of the Council of the European Union and the Ministry of Infrastructure, Transport and Networks. Several activities will take place, including the :

- European Day of Courtesy on the Road (March 22nd) campaign on motorways and on the radio. [LINK](#)
- Debate co-organised with the European Transport Safety Council (ETSC) on Road Safety Performance Index, titled "Greece's Road Safety in a European context" (March 19th) [LINK](#)

RIDERSCAN's new survey on Intelligent Transport Systems and Motorcycling Safety 2014



The RIDERSCAN project is a EU co-funded project, coordinated by the Federation of European Motorcyclists' Associations (FEMA), aiming to gather existing information on motorcycle safety in Europe, to identify needs for action and to create a crossborder knowledge-based network. NTUA contributes to the various actions of the RIDERSCAN project as an activity partner.

RIDERSCAN launched the 3rd and last survey targeting European motorcyclists. With the objective to **draw a European map of rider awareness and acceptance of new technologies** applied to the transport systems, the survey is asking riders to evaluate willingness to test, use, and buy systems, which are, for a wide majority of them, far from being introduced in the market. Motorcycle riders and stakeholders are invited to fill in this on-line survey, (in less than 15 minutes), available in several European languages: English [LINK](#), Greek [LINK](#)

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 is 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.nrso.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.