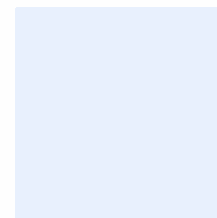


A. Name of the Speaker: Prof. José Neves (University of Lisbon)



B. Workshop Title: Modeling of accidents based on road environment conditions for safety management

C. Main Subjects of Workshop:

- ۱) Cause of accidents related to the road infrastructure is usually not a single characteristic but rather a complex combination of several characteristics (e.g. traffic, road geometry, weather conditions).
- ۲) An approach to accidents modeling based on cluster analysis is presented in order to consider the road as a complete environment by using compound road environments. The application of this methodology is demonstrated for eight roads.
- ۳) Based on real data from accidents and road characteristics, three compound road environments were established where the infrastructure characteristics significantly influence the occurrence of accidents.
- ۴) A demonstration is presented on the consideration of the infrastructure characteristics in traffic safety management.

D. Brief Background of the Speaker:

۱. Assistant Professor of the Department of Civil Engineering, Architecture and Georesources, Instituto Superior Técnico, University of Lisbon, Portugal

Main publications of the speaker on the workshop theme:

۲. Fernandes, A., Neves, J. (۲۰۱۳). An approach to accidents modeling based on compounds road environments. Accident Analysis and Prevention, ۵۳, ۳۹- ۴۵, DOI: ۱۰.۱۰۱۶/j.aap.۲۰۱۲.۱۲.۰۴۱
۳. Fernandes, A., Neves, J. (۲۰۱۴). Threshold values of pavement surface properties for maintenance purposes based on accidents modelling. International Journal of Pavement Engineering, Volume ۵۳, ۱ April ۲۰۱۳, Pages ۳۹-۴۵, DOI: ۱۰.۱۰۸۰/۱۰۲۹۸۴۳۶,۲۰۱۴,۸۹۳۳۲۴
۴. Fernandes, A., Neves, J. (۲۰۱۷). Sensitivity of traffic safety to the pavement and road environment conditions using driving simulations. Journal of Transportation Safety & Security, Driving Simulation Experiments & Behavior Analyses, 10:1-2, 88-104, DOI: ۱۰.۱۰۸۰/۱۹۴۳۹۹۶۲,۲۰۱۷,۱۲۹۴۲۲۸

