

**October 5<sup>th</sup> : Demonstrations. Location: LCPC, 58 Bd Lefebvre, 75015 Paris (www.lcpc.fr)****Driving simulator prototype with yaw motion**

Simulator sickness is one of the key limitation for driving simulation as it induce a bias in the populations which can be tested. Several hypothesis have been issued relating to the reasons of the sickness. This new prototype aims at investigating the interest of the rendering of a yaw information for mitigating the sickness.

**Pedestrian simulator prototype**

Pedestrians are vulnerable users and the mitigation of the fatalities is one important topic of research. The interactions between pedestrians and car drivers, peculiarly when pedestrians cross the roads, and the various way to design the road equipments in order to mitigate the risk of accidents have to be investigated. This pedestrian simulator prototype, with its five large screens, aims at allowing such studies.

**Motorbike simulator prototype**

Due to space reallocation in large cities, the number of Powered Two Wheeled (PTW) vehicles is increasing. The induced problem is the number of fatalities and injuries involving the drivers of such vehicles. To study efficient counter measures it is crucial to better understand the behaviour of the PTW's riders. Such studies have been conducted for a long time for car drivers, and driving simulators are one of the tools which allow the studies. The INRETS-MSIS motorbike simulator prototype aims at allowing PTW's drivers behavioural studies.

Group1: 14h00 - 15h30

Group 2: 15h30 - 17h00

Group 3: 17h00 - 18h30

**October 6<sup>th</sup> : Conference. Location: FCBA, 10 avenue de St Mandé, 75012 Paris**

9:00-10:00	Registration		
10:00-10:15	Welcome		
<b>Session 1 – Traffic modelling and simulation. Chairman: A. Garcia</b>			
	10:15-10:45 Traffic Simulation Modelling of Driver Assistance Systems <i>A. Tapani</i>	10:45-11h15 Evaluating the Impacts of ITS Applications using Microscopic Traffic Simulators <i>K. Čapek, J.-P. Pitkänen, J. Niittymäki</i>	
	11:15-11:40 Break		
	11:40-12:10 Using traffic micro-simulation to test route diversion as a real-time crash prevention strategy on freeways <i>M. Abdel-Aty, V. Gayah</i>	12:10-12:40 Evaluation of traffic safety at unsignalized intersections using microsimulation: an utilization of proximal safety indicators <i>A. Pirdavani, T. Brijs, T. Bellemans, G. Wets</i>	
12:40-14:10 lunch			
<b>Session 2 – Simulation application for design. Chairman: A. Benedetto</b>			
	14:10-14:40 Can driving simulator help in designing safer road curves which enhance aesthetics of roads? <i>L. Zakowska</i>	14:40-15:10 Assessment of the design of reverse horizontal curves to accommodate heavy vehicles based on simulation <i>E. Kazagli, B. Psarianos</i>	15:10-15:40 Analysis of the influence of 3d coordination on the perception of horizontal curvature using driving simulator <i>A. Garcia, J. F. Dols, A. T. Moreno, D. Calatayud, A. Tarko</i>
	15:40-16:00 Break		

	16:00-16:40 Poster session 1	
	16:40-17:10 High Dynamic Range Rendering for Driving Simulations <i>J. Petit, R. Brémond, F. Vienne</i>	17:10-17:40 Geometric Field Of View Manipulations Affect Perceived Speed in Driving Simulators <i>C. Diels, A. M. Parkes</i>
Evening : gala dinner. Eiffel Tower		

**October 7<sup>th</sup> : Conference. Location: FCBA, 10 avenue de St Mandé, 75012 Paris**

<b>Session 2 – Simulation application for design</b>			
	9:00-9:30 Virtual Reality for Road Design: A Case Study of <i>Ohashi Junction</i> <i>Lorentzen, Ito, Goto, Tazawa</i>	9:30-10:00 Augmented Reality: How to Apply to Traffic Engineering Studies <i>E. Radwan, G. Moussa</i>	
	10:00-10:20 Break		
<b>Session 3 – Road user’s behaviour and simulation Chairman : B. Psarianos</b>			
	10:20-10:50 Conceptual and methodological framework for studying drivers’ activity <i>F. Saad (Invited speaker)</i>	10:50-11:20 About pedestrian safety in Europe <i>E. Papadimitriou, G. Yannis, P. Evgenikos</i>	11:20-11:50 Research related to powered two wheelers in Europe <i>S. Espié (Invited speaker)</i>
	11:50-12:30 Poster session 2		
12:30-14:00 lunch			
	14:00-14:30 Study of driver’s behavior during overtaking situations <i>K. Younsi, J. Floris, B. Rajaonah, P. Simon, P. Loslever, J-C. Popieul</i>	14:30-15:00 Elderly drivers vs. IVIS and ADAS - results from a set of driving simulator studies <i>S. Novotny, P. Bouchner, M. Novak</i>	15:00-15:30 Driver Fatigue, Time of Day and Hazard Perception <i>R. Höger, N. Marquardt, M. Walter</i>
	15:30-15:50 Break		
	15:50-16:20 Tools and methodologies for the study of motorcyclist’s behaviour in real context <i>S. Aupetit, S. Espié, B. Larnaudie, J. Riff, O. Buttelli</i>	16:20 – 16:50 Hazard Perception in teenagers: an effectiveness study of a virtual riding trainer <i>G. Vidotto, A. Bastianelli, A. Spoto, F. Sergeys</i>	16:50-17:20 Pedestrian Safety and Crosswalk Signage Preferences in a Large University Campus Environment <i>J. C. Medina, R. F. Benekohal, M.-H. Wang</i>
	17:20-17:35 Conclusions, next RSS conference		

**Posters**

1. An investigation of driver reactions in a far side impact
2. Combining autonomous vehicles and controlled events in driving simulator scenarios
3. Effect of moderated doses of alcohol on behavior of drivers confronted to simulated scenarios of accident
4. Safety and headways characteristic in highway work zones with automated speed enforcement
5. Safety assessment of intersection phase-change interval timing using simulation
6. Safety distinction of T intersections with and without left turn lanes - Slovenian experiences
7. Visuo-vestibular interaction in the perception of self-rotation
8. Safety Impacts of Short Headways in Highway Bottlenecks
9. Capacity estimation of alternative types of roundabouts using micro simulation tools
10. Driver behavioral response to an in-vehicle active safety system – a preliminary simulation study