HUMANIST 5th Conference
on Human Centred Design
for Intelligent Transport Systems

Loughborough, UK
30 June – 1 July 2016

Programme
Scientific conference

Human Machine Interaction
Human Factors
Intelligent Transport Systems
Ecomobility
FOT and Naturalistic Driving Studies
Automation
Tools and methodologies for safety and usability
Diversity and specificity of road user groups
30th of June

9.15 Welcome reception
9.30 Opening session & key-note
10.15 Coffee Break
10.45 S1 - Driver State
12.25 Lunch
13.30 S2 - Automated driving & ADAS
       S3 - Intelligent Transport Systems
14.50 Break
15.20 S4 - Ecodriving
       S5 - Older driver
16.40 SS on Resilience in other safety critical domain & round table
18.20 19.45 Dinner at Senna Suite

1st of July

9.00 Key-note session
9.45 S6 - Vulnerable Road Users
11.05 Coffee break
11.30 Key-note session
11.50 S7 - Naturalistic Driving Studies
13.15 Closing session
13.10 Lunch
Welcome from Loughborough University
Andrew Morris, Loughborough University, UK

Welcome from HUMANIST VCE
Wouter Van den Berghe, HUMANIST President, IBSR/BIVV, Belgium

Automated transport and road casualty reduction
Pete Thomas, Loughborough University, UK

Opening session
Day 1, 9.30

Session 1
Day 1, 10.45

Driver State
Session chaired by Nicole van Nes, SWOV (NL)

Factors affecting phone engagement whilst driving - are they transferrable from outside the vehicle?
Graham Hancox (Loughborough University, UK)

Towards real-time cognitive load detection while driving: contribution of heart rate measurement
Guillaume Pepin, Alex Lafont, Franck Techer, Mathilde François (IFSTTAR, FR)

Analogue versus digital speedometer: effect on distraction and usability for truck driving
M. François, F. Osiurak, A. Fort, P. Crave, J. Navarro (IFSTTAR, FR)

The effects of repetitive presentation of a specific video based hazard on novice and experienced drivers hazard perception procedural learning abilities
Naomi Kahana-Levy (Bar-Ilan University, Israel), Avinoam Borowky (Ben-Gurion University of the Negev, Israel), Eli Vakil (Bar-Ilan University, Israel)

Automated driving & ADAS
Session chaired by Josef Krems, Technical University Chemnitz (DE)

Drivers’s support for supervision when driving automatically
Arie Paul van den Beukel, Mascha van den Voort (University of Twente, NL)

Human factors in testing automated vehicles on Dutch public roads - illustrated by a case study
Marjolein Boele-Vos, Saskia de Craen (SWOV, NL)

Effects of intersestion collision warning systems on drivers’ reaction time: a hazard-based duration model
Manuel Silvestri (Roma TRE University, IT)

Anger and driving: towards adaptation to ADAS
Franck Techer, Christophe Jallais, Y. Corson, Alexandra Fort (IFSTTAR, FR)

HMI Design methodology: evaluation of HMI proposal for compassed services through focus groups with final users
Eva Garcia (CTAG, ES)
Intelligent Transport Systems
Session chaired by Tania Willstrand, VTI (SE)

The effect advertisements on VMSs may have on the perception of relevant traffic information: an unexpected insight
Ilse Harms (Connecting Mobility, Ministry of Infrastructure and the Environment, NL), Chris Dijksterhuis, Bart Jelijs, Dick de Waard, Karel A. Brookhuis (University of Groningen, NL)

Human factors and ITS: the Dutch approach
Ilse Harms (Connecting Mobility, Ministry of Infrastructure and the Environment, NL), Ellen Willschut, Diana Vonk Noordegraaf, Matthijs Dick-Ogenia (University of Groningen, NL)

Representation of kinematic driving behaviour using Geographic Information System
Balsa-Barreiro J, Valero-Mora PM, Berné JL, Varela FA (University of Valencia, SP)

Wearable devices: needs, barriers and desires of the future Viennese intermodal traveller - A qualitative study
Juliane Haupt, Daniel Bell, Christoph Link (FACTUM, AT)

Ecodriving
Session chaired by Annie Pauzié, IFSTTAR (FR)

Understanding the user needs in the electric mobility system: a survey study
Caterina Calefato, Serena Fruttaldo, Elisa Landini, Roberto Montanari (RE:Lab, IT)

How to support eco-driving in electric vehicles? - A BEV field study
Kreusslein, Koch, Neumann & Krems (TUC, DE)

Smart charging systems as one solution to overcome grid stability problems in the future? A field study for examining the BEV user acceptance of a smart charging system
Schmalfuss, Kreusslein, Döbelt, Kämpfe, Wüstemann, Mair, Heller & Krems (TUC, DE)

Miniature traffic demonstrator with driving simulator
Oleksandr Goloborodko, Georg-Peter Ostermeyer (TU Braunschweig, DE)

Older Driver
Session chaired by Wouter Van den Berghe, IBSR/BIVV (BE)

The effect of age on injury outcome in frontal impact car crashes
Karthikeyan Ekambaram & Richard Frampton (Loughborough University, UK)

Relations between elderly drivers cognitive functions and their compensatory driving behaviors
Toshihisa Sato & Motoyuki Akamastu (AIST, JN)

SAFE Move for older drivers: a French-Swedish research initiative
Tania Dukic-Willstrand (VTI, SE), Claude Marin-Lamellet (IFSTTAR, FR)

Effects of airport road access way finding on senior behaviour and safety
Nur Khairiel Anuar, Tomano Pagliari, Richard Moxon (Cranfield University, UK)
Quantifying the role of human factors in serious injury crashes: a method to prioritise road safety countermeasures and drive road safety policy
Prof Michael Fitzharris (Monash University, AU)

Future concepts in driver state sensing
Prof Michael Lenne (Monash University, AU)

Using a systems approach to analyse fatal and serious collisions involving pedal cyclists and trucks in London between 2007 and 2011
Rachel Talbot, Steve Reed, Nicola Christie, Jo Barnes, Pete Thomas (Loughborough University, UK)

Low visibility of cyclists for motorists during the day: a study carried out with a driving simulator
Rogé, Navarro, Ndiaye, Aillerie, Aillerie, Vienne (IFSTTAR, FR)

Road safety messages and vulnerable road user detection by motorists
A. Lafont, J Rogé, JM Boucheix (IFSTTAR, FR)

Trying to validate subjective reports with naturalistic driving data - a case against questionnaires and surveys to quantify driver distraction
Tibor Petzoldt & Fabian Utesh (TUC, DE)

Digital & video analysis of eye-glance movements during Naturalistic Driving from the ADSEAT and TeleFOT field operational triels - Results and challenges
James Lenard, Karthikeyan Ekambaram, Steven Reed (Loughborough University, UK)

UDRIVE project: objectives, methods, data collected
Nicole van Nes (SWOV, NL)

UDRIVE project: simulator demonstration
Andrew Morris (Loughborough University, UK)
Conclusions of the conference
Andrew Morris (Loughborough University, UK)

Closing of the conference
Wouter van den Berghe (IBSR/BIVV, BE)

For information:
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http://conference2016.humanist-vce.eu

Venue:
Loughborough University
Design School
United Kingdom

Registration:
Registration fees for participants:
• Early bird until 15 May: 250 €
• Normal rate: 350 €
• Students & HUMANIST members: 150 €

It includes:
• Participation in the conference
• Conference proceedings
• Refreshments
• Lunches and dinner on 1st of July

Scientific committee

Andrew Morris, President (Loughborough University, UK)
Tania Willstrand (VTI, SE)
Annie Pauzié (IFSTTAR, FR)
Josef Krems (TUC, DE)
Nicole van Nes (SWOV, NL)
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