



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



Humanist

Conference Timetable

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 session

Day 1, 9.15

Welcome from Loughborough University
Andrew Morris, Loughborough University, UK

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

Opening session

Day 1, 9.30

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

Driver State

Session chaired by Nicole van Nes, SWOV (NL)

Session 1

Day 1, 10.45

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)

Session 2

Day 1, 13.30

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)

Session 3

Day 1, 13.30

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 Jelijns, 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)

Session 4

Day 1, 15.20

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

Schmalfluss, 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)

Session 5

Day 1, 15.20

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)

Resilience in other safety critical domain

Session chaired by Mr. Alberto Pasquini, Deep Blue (IT)

Resilience in Air Traffic Management

Martina Ragosta (Deep Blue, IT)

Resilience in healthcare

Mark-Alexander Sujan (Warwick Medical School, UK)

Resilience in automotive

Pedro Ferreira (Lisbon University, PT)

Round Table

Special Session

Day 1, 16.20

Key-Note

Day 2, 9.00

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)

Vulnerable Road Users

Session chaired by Andrew Morris, Loughborough University (UK)

Session 6

Day 2, 9.20

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)

Key-Note

Day 2, 11.30

Future concepts in driver state sensing

Prof Michael Lenne (Monash University, AU)

Naturalistic Driving Studies

Session chaired by Nicole van Nes, SWOV (NL)

Session 7

Day 2, 11.50

Trying to validate subjective reports with naturalistic driving data - a case against questionnaires and surveys to quantify driver distraction

Tibor Petzoldt & Fabian Utesch (TUC, DE)

Digital & video analysis of eye-glance movements during Naturalistic Driving from the ADSEAT and TeleFOT field operational trials - 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)

Closing session

Day 2, 13.10

Conclusions of the conference

Andrew Morris (Loughborough University, UK)

Closing of the conference

Wouter van den Berghe (IBSR/BIVV, BE)

Farewell lunch



For information:

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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)
Wouter Van den Berghe (IBSR/BIVV, BE)

Organising committee

Andrew Morris (Loughborough University)
Tania Willstrand (VTI)
Annie Pauzié (IFSTTAR, FR)
Lucile Mendoza (HUMANIST VCE, FR)