

6TH HUMANIST CONFERENCE

13 & 14
JUNE 2018



The Hague,
The Netherlands

PROGRAMME

SCIENTIFIC CONFERENCE

Timetable

June 13

8.30	Registration & Coffee
9.30	Welcoming session
10.00	Keynote presentation by Linda Boyle
10.45	Coffee break
11.15	Attitudes and preferences
12.45	Lunch
13.45	Distraction and inattention - <i>Parallel session</i> Automated vehicles: trust, accept and move on? - <i>Parallel session</i>
15.30	Coffee break
16.00	Driver behaviour and training
17.00	End of day

19. 00 Conference dinner at the beach

June 14

8.30	Registration & Coffee
9.00	Driver state and workload
10.45	Coffee break
11.15	Keynote presentation by Sjoerd van der Zwaan
12.00	Poster pitches
12.45	Lunch
13.45	Measuring driver behaviour and the influence of context - <i>parallel session</i> HMI design, how to get it right? - <i>parallel session</i>
15.30	Coffee break
16.00	Closing session with awards
16.30	Reception with drinks

13th of June

Day 1

Welcome session

9.30

Welcome from conference chair

Nicole van Nes - SWOV, The Netherlands

Welcome from HUMANIST VCE

Wouter Van den Berghe - HUMANIST President, VIAS, Belgium

Welcome from SWOV

Peter van der Knaap - director SWOV, The Netherlands

Keynote

10.00



The importance of understanding the user, the environment, the data, and the tools for examining the relationship between the human operator and increasingly autonomous vehicle systems

Linda Boyle - University of Washington, USA

Attitudes and preferences

11.15 - 12.45

Discomfort detection in automated driving by psychophysiological parameters from smartbands

Matthias Beggiato, Franziska Hartwich, Josef Krems - TUC

Designing the transition from highly automated driving to manual driving: a study of driver's preferences

Stefan Brandenburg, Sandra Epple - TU Berlin

Evaluation of free public transport for older people in Sweden

Tania Wilstrand, Per Henriksson, Lena Levin VTI | Helena Svensson - LTH

The relationship between explicit and implicit attitudes towards drunk driving

Laila Martinussen, Laura Petranca - DTU | Mikael J. Somhøvd - Tyrilistiftelsen

Distraction and inattention - *Parallel session*

13.45 - 15.30

Self-regulation of drivers' mobile phone use: the influence of driving context

Michiel Christoph, Simone Wesseling, Nicole van Nes - SWOV

What are drivers doing when they are not on the cell phone?

Carol Flannagan - University of Michigan | Jonas Bårgman, Andras Balint - Chalmers

Effects of secondary tasks and display position on glance behavior during partially automated driving

Ann Christin Hensch, C. Schmidt, N. Rauh, J. Krems - TUC | S. Hergeth, F. Naujoks, A. Keinath - BMW Group

Driving inattention as a consequence of stress

Efa Rimoldi, Juan Grana - Instituto Movilidad Sostenible

ESRA: E-Survey of road user's safety attitudes - Analysis of safety indicators and predictors of distracted driving behaviours

Veerle Ross, Kris Brijs, Muhammad Wisal Khattak - IMOB | Katrien Torfs, Uta Meesmann - VIAS

Automated vehicles: trust, accept and move on ? - *Parallel session*

13.45 - 15.30

Fostering trust and acceptance of a collision avoidance system through retrospective feedback

David Large, James Khan, Gary Burnett - University of Nottingham

Measuring trust in automated vehicles through gaze behaviour

Francesco Walker, Willem Verwey, Marieke Martens - University of Twente

Autonomous vehicle validation - are we just guessing or can we predict the future?

Steven Reed - Loughborough University

Understanding trust in an AD-context: a mixed method approach

Fredrick Ekman, Mikael Johansson, MariAnne Karlsson - Chalmers

Vehicle movements as implicit communication signal between pedestrians and automated vehicles

Claudia Ackermann, Matthias Beggiato, Luka-Franziska Bluhm, Josef Krems - TUC

Driver behaviour and training

16.00 - 17.00

Education of future car drivers in Flanders

Roel de Klerk, Kim Jacobs - VSV

Review of medical fitness to drive in Europe

Brian Fildes, Andrew Morris - Loughborough University | Jennie Oxley - Monash University Accident Research Centre | Shaun Helman, Jill Weekley - TRL Limited

License to Supervise. Influence of Driving Automation on Driver Licensing

Arie Van den Beukel - University of Twente

14th of June

Day 2

Driver state and workload

9.00 - 10.45

The assessment of hazard awareness skills among light rail drivers

Avinoam Borowsky - Ben Gurion University

Discriminating drivers' fear and frustration through the dimension of power

Meng Zhang - DLR

A «driver-more» Approach to Vehicle Automation

Andrea Catallano, Serena Fruttaldo, Elisa Landini, Roberto Montanari - RE:Lab | Andreas Luedtke - Offis

Driver's recovery performance in a critical run-off-road scenario - A driving study -

Alexander Eriksson, Bruno Augusto, Niklas Strand, Jesper Sandin - VTI

SADT: A secondary task for the assessment of driver's spatial mental workload when building representations of the current traffic situation

Uwe Drewitz - DLR

Keynote

11.15



The role of people movers as automated transport for the last mile

Sjoerd van der Zwaan - 2getthere

Poster pitches

12.00 - 12.45

The organizational response to automation support degradation. Identifying air traffic control sources of resilience in cases of radar loss

Luca Save, Daniele Ruscio - Deep Blue | Valentina Cedrini, Maurizio Mancini - ENAV

A simulator study on the effects of alcohol, age and experience on driving skills, visual scan patterns and attention

Sofie Boets, Charlotte Desmet - VIAS

Human centred design recommendations for autonomous car in transition phases

Annie Pauzie, Ferhat Lyess - IFSTTAR

Investigating driving behaviour in two-wheeler simulators

Arend Schwab, Natalia Kovascsova, Goerge Dyalinas, Olivier Lee, Joost de Winter, Riender Happee - TU Delft | Marco Grotoli - Siemens

Meaningful human control over automated driving systems

Daniel Heikoop, Marjan Hagenzieker, Giulio Mecacci, Filippo Santoni de Sio, Simeon Calvert, Bart van Arem - TU Delft

A participatory approach for acceptance of driverless shuttles. A next level of putting humans centre stage

Suzanne Kaiser, Daniela Patz - KfV

Automated feedback on viewing skills lowers accident involvement

Jorrit Kuipers, Peter Wieringa - TU Delft

ADAS: from owner to user

Ilse Harms, Marit Dekker - Connecting Mobility

Consumers' perceptions towards Autonomous and Connected Vehicles: a Focus-Group Survey on University Population

Ilias Panagiotopoulos, George Dimitrakopoulos - Harakopio University of Athens

Measuring driver behaviour and the influence of context - parallel session**13.45 - 15.30****Advantages and concerns when using eye tracking in virtual reality for road safety research**

Charlotte Desmet, Sofie Boets - VIAS

Heart rate analysis for human factors: Development and validation of an open source toolkit for noisy naturalistic heart rate data

Paul van Gent, Haneen Farah, Bart van Arem - TU Delft | Nicole Van Nes - SWOV

Harsh braking by truck drivers: a comparison of thresholds and driving contexts and driving contexts using naturalistic driving data

Reinier Jansen, Simone Wesseling - SWOV

A normal driving based deceleration behaviour study towards autonomous vehicles

Stravoula Panagiota Deligianni, Mohammed Quddus, Andrew Morris, Aaron Anvuur - Loughborough Univeristy

Investigation of Herringbone pattern and Optical Circles for Safe Driving Behaviour at Curves Using Driving Simulator

Hammad Hussain Awan, Ali Pridavani, Tom Brijs - IMOB

HMI design, how to get it right - parallel session**13.45 - 15.30****Augmented reality as an ADAS system: a cognitive approach**

Lucas Morillo, Eva Maria Garcia Quinteiro - CTAG

Ipsilateral versus contralateral tactile alerts for take-over requests in highly automated driving

Guy Cohen-Larzy, Nuphar Katzman, Tal Oron-Gilad - Ben Gurion University

Lane change manoeuvres for automated freeway driving applications

Klas Christoph, Nicole Eikenlenberg, Gudrum Voss, Louis Tijerina, Peter Zegelaar - RWTH Aachen University

«Trust me - I'm AutoCAB»: using natural language interfaces to improve the trust and acceptance of level 4/5 autonomous vehicles

Vicki Antrobus, Gary Burnett - University of Nottingham

ACC design for safety and fuel-efficiency: the acceptance of safety margins when performing different driving styles

Sanna Pample, Samantha Jamson, Daryl Hibberd - University of Leeds

Closing session with awards**16.00-16.30**

Nicole van Nes, SWOV - The Netherlands

Reception with drinks**16.30**