

PROGRAM AT A GLANCE

Tuesday, October 18, 2022

6:00 PM - 8:00 PM	Technical visit and networking dinner at Smart Eye
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Wednesday, October 19, 2022

	Room 1 - Pascal	Room 2 - Tesla
8:15 AM - 8:45 AM	Registration, mingle & coffee	
8:45 AM - 9:15 AM	Welcome by DDI Co-Chairs	
Parallel Session Block 1 9:15 AM - 10:45 AM	1.1 Driver Monitoring I	1.2 The Disconnected Driver
10:45 AM - 11:15 AM	Poster pitch session	
11:15 AM - 11:45 AM	Coffee break	
	Virtual Poster room with authors is open for Online delegates	
11:45 AM - 12:45 PM	Panel discussion #1 Driver inattention and distraction in the modern world Natasha Merat, Greg Fitch, Katja Kircher, Chris Monk	
12:45 PM - 1:45 PM	Lunch & Poster session	
1:45 PM - 2:45 PM	Keynote #1 Mike Lenné	
2:45 PM - 3:15 PM	Coffee Break 2	
Parallel sessions Block 2 3:15 PM - 4:45 PM	2.2 Understanding and Assessing Visual Attention	2.1 Driver Monitoring II
6:00 PM - 10:00 PM	Conference Dinner at L's Resto - Lindholmen	



DDI 2022

GOTHENBURG

October 19–20

Thursday, October 20, 2022

	Room 1 - Pascal	Room 2 - Tesla
8:15 AM - 8:45 AM	Registration, mingle & coffee.	
8:45 AM - 9:45 AM	Keynote #2 Carol Flannagan	
9:45 AM - 10:15 AM	Coffee Break 3	
Parallel sessions Block 3 10:15 AM - 12:00 PM	3.1 Safety and performance assessment	3.2 Drowsiness and Fatigue
12:00 PM - 1:00 PM	Lunch break	
1:00 PM - 2:00 PM	Panel discussion #2 Safety Assessment of Human Interactions with Vehicles and Automotive Technologies in the Context of Distraction and Inattention. Jonas Bärghman, Carol Flannagan, Tuomo Kujala, Adriano Palao, Mikael Ljung Aust	
2:00 PM - 2:30 PM	Coffee Break 4	
Parallel sessions Block 4 2:30 PM - 4:00 PM	4.2 Distraction from smart phones and other technology	4.1 HMI Design and Countermeasures
4:00 PM - 4:30 PM	Closing remarks, Best student award and invitation to DDI2024	

SESSIONS

Parallel Session Block 1
Wednesday 9:15 AM - 10:45 AM
Room 1 - Pascal

1.1 Driver Monitoring I

Katja Kircher
VTI

Driver attention monitoring and visual sampling from relevant and irrelevant targets

Alwyn Hoffman
North-west University

Automated real-time detection of truck driver non-compliance

Dr. Nadja Schömig
WIVW GmbH

Investigating different driver-in-the-loop strategies on driver's eye glances and intervention behavior in partial automated driving

Adriano Palao
Euro NCAP

Euro NCAP presents a 2-stage method to assess Driver State Monitoring systems as part of its 5-star consumer test programme

Parallel Session Block 1
Wednesday 9:15 AM - 10:45 AM
Room 2 - Tesla

1.2 The Disconnected Driver

Thomas Streubel
Chalmers University Of Technology
How does trust in vehicle automation

effect the hand-over process?
A Wizard-of-Oz study on public roads

Dan Boguslavsky
Ben Gurion University Of The Negev
Effect of engagement with a Trivia game on driver's sleepiness and behavioural adaptation in a partially automated vehicle

Natasha Merat
University of Leeds
Do drivers engage in NDRTs when travelling in an AV in real-world motorway environments?

Derek Albert
McGill University
Brief Online Mindfulness Training in Young Drivers: A Pilot Randomised Controlled Trial

Wednesday 10:45 AM - 11:15 AM

Poster pitch session

Claus Marberger
Robert Bosch GmbH
Non-driving related task engagement in highly automated vehicles: How to mitigate emerging motion sickness?

David Large
University Of Nottingham
Deriving Extended Keystroke Level Model Resumability Operators: An Occlusion Study

Paul Hemeren
University Of Skövde
Biomotion Triggering Driver Attention for Cyclists at Night

Eléonore Henry
Stellantis / Aix Marseille Univ
Effect of agency on the occurrence of car sickness: incidence for autonomous driving

Arthur Portron
UMR 7287 CNRS & Aix-Marseille Université
Ocular activity reflecting mental models' dynamics is influenced by autonomous driving duration

Tina Morgenstern
Chemnitz University Of Technology
Age effects on the Box Task combined with a Detection Response Task

Madelaine Coffey
University Of Nottingham
"Who's Got the Remote Control?" Understanding Driver Distraction and Inattention in the Context of Teleoperation and the Passenger Experience

Katerina Bucsuházy
Transport Research Centre
Different types of human failure causing crashes

Parallel sessions Block 2
Wednesday 3:15 PM - 4:45 PM
Room 2 - Tesla

2.1 Driver Monitoring II

Gaëtan Perrotte
Stellantis
Body posture and physiological indicators for drowsiness detection in a partial automated driving.

Che-tsung Lin
Chalmers University Of Technology
Data Augmentation via Neural-Style-Transfer for Driver Distraction Recognition

Mingming Zhao
Univ Gustave Eiffel
AutoConduct: a novel dataset for in-vehicle driver posture monitoring

Moti Salti
ADAM Cogtec
An active approach towards monitoring and enhancing drivers' capabilities-ADAM cogtec inc.

Parallel sessions Block 2
Wednesday 3:15 PM - 4:45 PM
Room 1 - Pascal

2.2 Understanding and Assessing Visual Attention

Vasiliki Kondyli
Örebro University
Analysing Driver (In)Attentiveness: Towards a Cognitive Complexity Model Combining Visuospatial and Interactional Parameters

Katja Kircher

VTI

Train driver attention is influenced by the type of railway signalling system

Emma Tivesten

Volvo Cars

The influence of alcohol and automation on drivers' visual behavior during test track driving

Ibrahim Öztürk

University of Leeds

How does night-time driving and engagement in a cognitive distraction task affect detection of peripheral targets?

Parallel sessions Block 3

Thursday 10:15 AM - 12:00 PM

Room 1 - Pascal

3.1 Safety and performance assessment

Tuomo Kujala

University Of Jyväskylä

Key requirements and a method for measuring in-vehicle user interfaces' distraction potential

Pierluigi Olleja

Chalmers University of Technology

Quantification of driver's side-glance frequency and duration in straight highway driving

Jonas Bärghman

Chalmers University Of Technology

Validation of an eyes-off-road crash causation model for virtual safety assessment

Christer Ahlström

Swedish National Road and Transport Research Institute (VTI)

Strategical use of peripheral vision in driving

Daniel Trommler

Chemnitz University of Technology

Evidence accumulation modeling for the Detection Response Task when combined with the Box Task

Parallel sessions Block 3

Thursday 10:15 AM - 12:00 PM

Room 2 - Tesla

3.2 Drowsiness and Fatigue

Assaf Botzer

Ariel Unviersity

Estimating Driver Fatigue Based on Heart Activity and Respiration Rate

Johanna Wörle

WIVW

What leads drivers to illicitly nap during conditionally automated driving?

Stephanie Dabic Degrand

Valeo

Assessment of the effectiveness of several countermeasures in reducing driver fatigue and associated risks for safety during autonomous driving.

Markus Tomzig

Wuerzburg Institute for Traffic Sciences (WIVW)

Who benefits from napping in automated driving? – Effects of chronotype on subjective sleep inertia

Ke Lu

Chalmers University Of Technology

Heart rate variability as an indicator for driver fatigue, different effects of time of day and time-on-task

Parallel sessions Block 4

Thursday 2:30 PM - 4:00 PM

Room 2 - Tesla

4.1 HMI Design and Countermeasures

Dr. Nadja Schömig

WIVW GmbH

"I'm Sad When You're Distracted" – Effectiveness and User Experience of an Innovative Driver Monitoring System for Partially Automated Driving

Annika Larsson

Arriver

To have and to hold during L2: Hands on wheel keeps drivers in lane while mind on road speeds response

Lara Désiré

Cerema

Attentional demands of using an application for real-time traffic information feedback in road operators' vehicles

Arun Muthumani

Autoliv

Human-machine interface designs assisting drivers of automated vehicles during transitions: evaluation from an end-user perspective

Parallel sessions Block 4

Thursday 2:30 PM - 4:00 PM

Room 1 - Pascal

4.2 Distraction from smart phones and other technology

Yi-ching Lee

George Mason University

Psychosocial Needs and Factors Contribute to Problematic Phone Use while Driving

Burcu Arslan

Middle East Technical University

TXT N DRV: A Systematic Review of the Effect of Texting while Driving on Driver Performance

Vanessa Beanland

University Of Otago

Distracted, unfocused and risky driving in adolescents: Associations with sleep issues, inattention and sluggish cognitive tempo symptoms

Jeremy Wolter

National Transport Commission

Managing the driver distraction risk posed by technology: Changes to Australian road laws aimed at driver behaviour