



CONFERENCE PROGRAM DDI 2026

Gothenburg, Sweden

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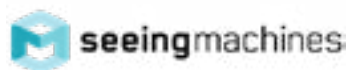
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TUESDAY 20 OCTOBER

Room/Time	PASCAL	
08:30-10.15	Pre-conference workshop #1: <u>Approaches to Supporting Driver Attention</u> <i>(Pre-booking required)</i>	
Room/Time	PASCAL	
10.30-12.00	Pre-conference workshop #2: <u>How to prospectively assess the safety impact of HMI and DMS-based safety systems</u> <i>(Pre-booking required)</i>	
Room/Time	PASCAL	
12.00-13.00	Registration, networking & coffee + exhibition	
Room/Time	PASCAL	
13.00-13.15	Welcome from the Organizing Committee Conference overview & practical information	
Room/Time	PASCAL	
13.15-14.05	Keynote #1 <u>Euro NCAP Driver Monitoring Framework for 2029</u> <i>Adriano Palao, Technical Manager for ADAS and Automated Driving at Euro NCAP</i>	
Room/Time	PASCAL	TESLA
14.10-15.30	Parallel sessions 1 & 2	
	Session 1 - HMI design and evaluation <i>Session Chair: Natasha Merat</i>	Session 2 - Mind wandering, event boundaries and residual attention <i>Session Chair: Alexandra Fort</i>
	<u>Designing Low-Distracted Vehicle Controls: Modality Selection and Interface Design Aspects</u> <i>Karsten Klaffer</i> <u>Are you still searching or already scrolling? – Layout-dependent effects of visual information quantities in in-vehicle information systems</u> <i>Isabel Mötsch and Natalia Sevchenko</i> <u>RealCarSIM: A new approach for the user testing of in-vehicle applications</u> <i>Barbara Metz</i> <u>Counting the Cost: Validating Discrete Driver-IVIS Interaction Count as a Practical, Equipment-Free Index of In-Vehicle Infotainment System Distraction</u> <i>Angus McKerral</i>	<u>Please talk to me - a systematic review of secondary tasks while driving</u> <i>Mark Vollrath</i> <u>Driver distraction at roadway event boundaries: a simulator investigation within an event segmentation framework</u> <i>Avinoam Borowsky</i> ★ <u>Hands on the wheel, head in the clouds? Mind-Wandering Signatures in Simulated Manual Driving</u> <i>Séverine Brelaud</i> ★ <u>The impact of non-driving related task engagement on the attentional processing of a novel unexpected auditory information</u> <i>Yannick Lavril</i>
15.30-16.00	Coffee & networking + exhibition	
Room/Time	Parallel sessions 3 & 4	
	PASCAL	TESLA
	Session 3 - Visual attention beyond fixation <i>Session Chair: Tuomo Kujala</i>	Session 4 - Advances in driver state monitoring <i>Session Chair: Barbara Metz</i>
16.00-17.20	★ <u>Beyond Fixation: A Systematic Review of Peripheral Vision Use in Driving</u> <i>Victor Meulenkamp</i> <u>Dynamic Advertising on Vehicles: Effects on Driver Glance Behavior</u> <i>Tibor Petzoldt</i> <u>Reducing inattentive blindness to warning signals: the influence of meaning, emotional value, and task context</u> <i>Katarina Pavic</i> <u>Braking without looking: understanding driver responses to sudden lead-vehicle deceleration using a forced peripheral vision paradigm</u> <i>Malin Svärd</i>	<u>"What Does the Car Know?" Mapping Mental Models of Driver Monitoring Systems</u> <i>Iris Jestin</i> <u>I2Connect: Intelligent, Interactive, and Connected - Next Generation of Real-time Driver Safety Support Systems</u> <i>Paul Hemeren</i> ★ <u>Drowsiness and sleep prediction via imaging PPG: a multisenario validation from Simulated to Naturalistic Driving</u> <i>Michele Guagnano</i>
18.00-19.30	<u>Welcome reception</u> - hosted by the City of Gothenburg and Region Västra Götaland <i>(Gustaf Adolfs Torg 5)</i>	

WEDNESDAY 21 OCTOBER

Room/Time	PASCAL	
08.30-09.00	Coffee & networking + exhibition	
09.00-09.05	Welcome Back & Day 2 Overview	
09.05-09.55	Keynote #2 <u>From Distraction to Attention: Theory and Applications</u> <i>Katja Kircher, Senior researcher at VTI</i>	
Room/Time	PASCAL	
09.55-10.20	Poster briefings (Group A) <u>A Methodological Approach to Evaluate Driver Distraction During In-vehicle Interactions with Voice-based Large Language Models</u> <i>Nadja Schömig</i> <u>Hands On, Eyes On! Driver Monitoring and Behaviors in Hands-Free Level 2 Automation</u> <i>Linda Pipkorn</i> <u>Reducing Ambiguity in Emergency Vehicle Interaction: Strengthening Communication with LED Displays</u> <i>Kajsa Weibull</i> <u>Baseline gaze behavior of younger and older drivers under undistracted conditions in cyclist intersection conflicts</u> <i>Jordanka Kovaceva</i> <u>Characterizing and Detecting the Driver Intended Head Movements During attentional and inattentional behaviours: An Open Road and Test Track Study</u> <i>Aimé Tiadi</i> <u>Adaptive Automation of Human Information Processing in Driver-Road Interaction: A Driving Simulation Study in Motorway Environments</u> <i>Alessandra Lioi</i> <u>Where Luminance Guides Driving: Route-Specific Attention Revealed by Vehicle Control and Pupil Responses</u> <i>Jumpei Yamashita</i> <u>Driver Distraction and Mobile Device Usage: Safety Performance Indicator Results for Croatia</u> <i>Juraj Leonard Vertlberg</i> <u>Enhancing driver attention through behavior change interventions: Insights from the Norwegian driving challenge</u> <i>Rita Helen Aarvold</i>	
Room/Time	CANDELA LOBBY	
10.20-11.00	Coffee & networking + poster session	
Room/Time	PASCAL	TESLA
11.00-12.30	Parallel sessions 5 & 6	
	Session 5: Automation transitions, readiness and disengagement <i>Session Chair: Linda Pipkorn</i>	Session 6: Driver monitoring, impairment and assessment <i>Session Chair: Christophe Jallais</i>
	★ <u>Partial driving automation can impose additional demand on the driver without impairing driving performance in a car-following scenario</u> <i>Katharina Kummerer</i> <u>Validation of an evidence accumulation model for driver readiness in assisted driving using driver ocular metrics</u> <i>Rafael C. Gonçalves</i> <u>How L3 Driving Automation Will Actually Be Used: A Phase-Based Taxonomy of Usage Patterns and Design Considerations</u> <i>Joonbum Lee</i> <u>From Old Bottles to New: Reframing Driver Distraction in an Era of Vehicle Automation</u> <i>Joonbum Lee</i>	<u>Euro NCAP 2029 Driver Monitoring Assessment Framework for Mitigating Driver Inattention Risks</u> <i>Adriano Palao</i> ★ <u>Exogenous Disruptions of Visual Attention and Gaze Abnormality</u> <i>Huy Phan</i> <u>Disentangling alcohol and sleepiness effects on driver monitoring system metrics</u> <i>Christer Ahlström</i>
12.30-13.30	Networking lunch + exhibition	

WEDNESDAY 21 OCTOBER

Room/Time	PASCAL	
13.30-14.40	Panel Discussion #1 <u>The assessment of DMS-based systems - what's needed?</u>	
Room/Time	PASCAL	
14.40-15.00	Poster briefings (Group B) <u>Micro- and Macro-Steering Reversal Analysis for Personalized Drowsiness Detection</u> <i>Sanjana Hassan Ananda Kumar</i> <u>Driver attention during partially automated driving: Insights from reference drivers' glance behavior</u> <i>Claus Marberger</i> <u>Beyond the Source of Distraction: Shared Neural Signatures of Internal and External Distraction in Drivers</u> <i>Mahdi Davari</i> <u>Calibrating Non-Invasive Impairment Detection Without Intoxication Ground Truth: An Indirect Application Approach</u> <i>Denny Kopp</i> <u>Driving with future intentions: examining the influence of prospective memory representations on driving performance</u> <i>Karamjeet Kaur Sarna</i> <u>Seeing Through Occlusion: Validation of the Occlusion Test Protocol for IVIS Interactions</u> <i>Rachael Wynne</i> <u>Comparing a camera monitor system (CMS) with conventional mirrors in heavy goods vehicles: Results from a reversing experiment</u> <i>Victor Fabricius</i> <u>Comparing Eyes-Off-Road Behavior Between Tactile and Touchscreen Secondary Task Interfaces</u> <i>John Cliburn</i> <u>Prerequisites for Adaptive ADAS: Learning from Fatal Crashes in Sweden</u> <i>Johan Karlsson</i>	
Room/Time	CANDELA LOBBY	
15.00-15.50	Coffee & networking + poster session	
Room/Time	PASCAL	TESLA
15.50-16.50	Parallel sessions 7 & 8	
	Session 7: Real-world interaction behaviour, conversational load and crash risk <i>Session Chair: Christer Ahlström</i>	Session 8: Distraction and driver characteristics <i>Session Chair: Christophe Jallais</i>
	★ <u>Conversational cognitive load meets lateral hazard exposure: How environment shapes crash risk</u> <i>Minxiang Zhao</i> <u>How Drivers Allocate Visual Attention During Extended Conversational AI Interactions</u> <i>Allegra Ayala</i> <u>Driver interaction with central display in real-world driving conditions</u> <i>Mirta Zelenika Zeba</i>	<u>Behaviour of cognitively distracted cyclists in T-junctions</u> <i>Mette Møller</i> <u>Age-Dependent Changes in Pupillometric Indicators of Cognitive Load During Hands-Off L2 Driving</u> <i>Courtney Goodridge</i> <u>Crash risk of eyes off road among teen drivers across age and driving experience</u> <i>Alexandria Noble</i>
17.15-17.30	Bus from Lindholmen Science Park to Smart Eye <i>(Pre-booking required)</i>	
17.30-19.00	Study tour at Smart Eye <i>(Pre-booking required)</i>	
19.00-19.30	Bus from Smart Eye to dinner venue <i>(Pre-booking required)</i>	
19.30-22.00	<u>Conference Dinner - Sponsored by Seeing Machines</u>	

THURSDAY 22 OCTOBER

Room/Time		
08.30-08.45	Coffee & networking + exhibition	
Room/Time	PASCAL	
08.45-08.50	Welcome Back & Day 3 Overview	
08.50-09.50	Panel Discussion #2 <u>The touchscreen takeover: Can "glass" be safe enough?</u>	
09.50-10.20	Coffee & networking + exhibition	
Room/Time	PASCAL	TESLA
10.20-11.40	Parallel sessions 9 & 10	
	Session 9: Automation in use: engagement, gaze and user state <i>Session Chair: Bruce Mehler</i>	Session 10: Safety assessment, models and validation <i>Session Chair: Jonas Bärghman</i>
	★ <u>Investigating drivers' visual scanning patterns under different levels of driving automation across daytime and after dark driving environments</u> <i>Yee Thung Lee</i>	<u>Evaluating attentional requirements at scale: A GIS-based proof of concept</u> <i>Katja Kircher</i>
	<u>Anxiety as a Source of Inattention During Highly Automated Driving: Effects on Situation Awareness at Takeover</u> <i>Angus McKerral</i>	<u>Possibility over probability: A worst-case approach to driver distraction and inattention assessment</u> <i>Tuomo Kujala</i>
	<u>Effects of Automated Driving Style and Visual Countermeasures on Motion Sickness During Visual NDRT</u> <i>Sarah Schwindt-Drews</i>	<u>From glances to outcomes: How counterfactual risk estimates relate to real-world crash odds</u> <i>Jonas Bärghman</i>
	<u>Comparison of Driver In-Vehicle Technology Engagement for Hands-On and Hands-Free Partial Driving Automation</u> <i>Joshua Domeyer</i>	<u>Predicting Reaction Time Under L2 Assisted Driving and Cognitive Load: A Sensitivity Analysis of Eye-Tracking Features Using XGBoost and Explainable AI</u> <i>Rafael C. Gonçalves</i>
Room/Time	PASCAL	
11.55-12.15	Closing ceremony & Best Student Contribution Award	
12.15-13.00	Networking lunch + exhibition	
13.00	End of conference	
13.15-13.30	Bus from Lindholmen Science Park to World of Volvo <i>(Pre-booking required)</i>	
13.30-16.00	<u>Tour at World of Volvo</u> <i>(Pre-booking required)</i>	
16.00-16.15	Bus from World of Volvo to Lindholmen Science Park <i>(Pre-booking required)</i>	

★ Best Student Contribution Award