# 24-26 SEPTEMBER 2025

# GUIDEBOOK



# DSC 2025 EUROPE XR

Driving Simulation & eXtended Reality Conference & Exhibition

Haus der Wirtschaft, Stutgart | Germany

Organized by



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**DSC** 2025 EUROPE XR

Driving Simulation & eXtended Reality Conference & Exhibition

The Driving Simulation Conference gathers driving simulation specialists from the industrial and academic communities as well as commercial simulation providers. This 24th edition follows that of 2024, held in Strasbourg, in a hybrid version with about 300+ participants. The exhibition is coming back towards more than 40 professional exhibitors and up to 400 on site participants. With about 80 speakers in scientific and industrial product solution sessions, keynotes, tutorials and round tables, you will get the latest trends in XIL (MIL, SIL, HIL, DIL, VIL, CIL) and XR simulation for ADAS, automotive HMI and driving simulation design, motion sickness and rendering, as well as connected and autonomous vehicle verification and validation.

Themes include state of the art in driving simulation technology, research and developments, extended with progressively emerging virtual and augmented reality (XR) developments. This year's program will also host a special session on virtual validation and certification tools for autonomous and connected vehicles along with advanced driving assistance system (ADAS) applications. Human factors and motion rendering nevertheless will stay as a now traditional axes of the conference.

You are welcome to the DSC 2025 Europe Conference organized by the Driving Simulation Association, in cooperation with Arts et Métiers Institute of Technology and Gustave Eiffel University, held on September 24-26 in Stuttgart for the conference and exhibition!



The way for tomorrow's vehicle

Introduction	3
DSC 2025 Exhibition Presentation	5
Commitees	6
Organizing Committee	
Scientific Committee	
Technical Committee	
Keynote Speakers	9
Program	12
Posters	28
Exhibition Floor Plan	32
Sponsors	36
Partners	42
Exhibitors	44
Driving Simulation Association	54

We are committed to bringing you the best opportunity to meet and network with **many customers**, **prospects and partners** in the field of driving simulation.

Authors, keynote speakers and delegates are attending this conference with the common aim of hearing about the latest developments in the field and will be keen to learn about your technology and services. The conference is expected to attract more than **300 attendees**, which will ensure that the event has the buzz you need to generate interest in your products.

# The DSC Organizing Team wishes to all participants and exhibitors a great time at the Driving Simulation Conference Exhibition 2025!



Haus der Wirtschaft Willi-Bleicher-Straße 19, 70174 Stuttgart - Germany

## Organizing Committee



### Andras Kemeny | Conference chair

President, Driving Simulation Association Member of Board of Directors, ASAM

## Florent Colombet | Program Co-Chair

Treasurer of Driving Simulation Association Innovation Project Manager, Renault



### Jean-Rémy Chardonnet | Program Co-Chair

Driving Simulation Association Professor, Arts et Métiers



#### Gerd Baumman

Head of Software Department FKFS, University of Stuttgart



#### Hans-Peter Schöner

Driving Simulation Association Senior Automobile Expert



## Maryam Jafari Raviz | Conference Assistant

**Driving Simulation Association** 



#### Lucile Frugier | Conference Assistant

**Driving Simulation Association** 

The scientific committee is composed of recognized academics, OEM, Tier 1 or Standardisation body experts involved in driving simulation research activities in their organisations. Being member of the Scientific Committee involves also a commitment to avoid using his or her committee role in any individual consultancy activity, which may influence his or her objectivity in reviewing or any other undertaken committee task.

#### Chairman

Andras Kemeny

Driving Simulation Association (France)

Mohammad Bahram	BMW Group R&T (Germany)
Gerd Baumann	FKFS (Germany)
Klaus Bengler	Technical University Munich (Germany)
Jost Bernasch	The Virtual Vehicle (Austria)
Jelte Bos	TNO (The Netherlands)
Heinrich H. Bülthoff	Max Planck Institute (Germany)
Frank Cardullo	State University of NY (United States)
Viola Cavallo	University of Gustave Eiffel (France)
Jean-Rémy Chardonnet	Arts et Métiers Institut of Technology (France)
Florent Colombet	Renault (France)
George Drettakis	INRIA (France)
Magnus Eek	VTI (Sweden)
Stéphane Espié	University of Gustave Eiffel (France)
Zhou Fang	Renault (France)
Martin Fischer	DLR (Germany)
Massimiliano Gobbi	Polytechnic University of Milan (Italy)
Jens Häcker	DHBW Stuttgart (Germany)
Siddartha Khastgir	University of Warwick (UK)
Joseph K. Kearney	University of Iowa (United States)
Franck Mars	CNRS (France)
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Frédéric Mérienne	Arts et Métiers (France)
James Oliver	Iowa State University (United States)
Jean-Christophe Popieul	Hauts-de-France Polytechnic University (France)
Paolo Pretto	Virtual Vehicle (Austria)
Richard Romano	University of Leeds (United Kingdom)
Joost Venrooij	BMW Group (Germany)

#### Scientific Committee Members

The Technical committee is composed of recognized industrial experts or managers of OEM, Tier 1 or research institutes involved in the driving simulation industrial ecosystem. Being member of the Technical Committee involves also a commitment to avoid using his or her committee role in any individual consultancy activity, which may influence his or her objectivity in reviewing or any other undertaken committee task.

#### Chairman Luz Amanda Garcia Galeano EBUSCO (Netherlands) Technical Committee Members Omar Amhad NADS (United States) Florent Colombet Renault (France) David Defianas Stellantis (France) Marius Dupuis ASAM (Germany) Vincent Honnet SystemX (France) Andras Kemeny Driving Simulation Association (France) Martin Peller BMW (Germany) Stéphane Régnier Renault (France) Martin Sevenich Continental (Germany) Georg Stettinger Infineon (Germany) Sebastian Wagner BMW (Germany)

Keynotes are historically inspiring talks given by eminent scientists in the field of driving simulation, completed now by important industrial executives.



Ms. Yue Li | CTO and co-founder, IAE Group

## "Practice for scenario based simulation accelerating the safe application of autonomous driving"

Car manufactures are exploring commercial implementation scenarios for autonomous driving, hoping to enhance product strength through this technology; Practical and feasible solutions are needed in regulation to form positive guidance and access. In the process of landing for autonomous driving, simulation testing based on a large-scale and systematic scenario library will play a key role in productization and market access. This keynote will focus on sharing the practical experience in China of scenario based L4 autonomous driving simulation testing.



**Dr. Behrang Keshavarz** | Senior Scientist, KITE Research Institute, UHN Adjunct Professor, Toronto Metropolitan University

#### "Motion sickness: A challenge in real and simulated driving situations"

Motion sickness affects one in three people, with vomiting, nausea, dizziness, or headache being just few of the many symptoms. Two global mega-trends make motion sickness a major challenge to healthcare and industry in the upcoming decades: fully automated vehicles and Virtual Reality (VR) applications. Motion sickness is a serious concern for both technologies, jeopardizing their success and overall acceptance. In this presentation, Dr. Keshavarz will provide an overview of the phenomenon of motion sickness, with a specific focus on theoretical considerations, factors influencing individual susceptibility, measurement techniques, and potential solutions.



Pr. George Drettakis | Research Director, Inria

#### "The 3D Gaussian Splatting Adventure: Past, Present and Future"

Neural rendering has advanced at outstanding speed in recent years, with the advent of Neural Radiance Fields (NeRFs), typically based on volumetric ray-marching. Last year, Pr. Drettakis's group developed an alternative approach, 3D Gaussian Splatting, that has better performance for training, display speed, and visual quality and has seen widespread adoption both academically and industrially. In this talk, the 20+ year process leading to the development of this method will be described, including a short historical perspective on image-based and neural rendering over the years, that culminated with 3D Gaussian Splatting. Prof. Drettakis will then discuss 3D Gaussian Splatting, which provides high-quality real-time rendering for novel view synthesis using a novel 3D scene representation based on 3D Gaussians and fast GPU rasterization.

## Industrial Keynote Speakers



#### Dr. Craig Brown | Director, BrownSim Ltd

#### "ProCue: Outcue the Competition"

Would you like to maximize the value of your simulator activities without additional R&D spend. Rejuvenate an old simulator instead of buying a new one? Would you like your sim drivers to have absolute confidence?

The majority of simulators in industry are underutilized. This is because the tuning or development of cueing algorithms is a time consuming process, one that cannot always be commercially justified. In the extreme case, bad cueing may render a multi-million dollar simulator worthless! Given these challenges, ProCue was conceived. With ProCue, one can fully realize the theorized and advertised potential of motion simulators, freeing your team to focus more on value generation and less on cueing research. In this keynote, Dr. Brown will show you how to "outcue" the competition.



Kilian Joerg | Product Manager for Testbench Systems, MdynamiX AG

## "Hardware-in-the-Loop for Enhancing Steering Experience in Driving Simulators"

Steering feel is crucial for an enjoyable driving experience. Traditionally, it has been evaluated using real vehicle prototypes, which are often limited during the early stages of development. This presentation details MdynamiX's Hardware-in-the-Loop (HiL) systems, which integrate actual steering mechanisms into advanced driving simulators. This integration facilitates a precise and realistic assessment of steering dynamics early in the design process, leveraging real-time data and feedback to enhance the fidelity of simulation models.



Thomas Nguyen That | Chief Products and Strategy Officer, AVSimulation "Title available soon"

Descriptive text available soon



Dr. Richard Romano | Staff Researcher, General Motors, Visiting Professor, University of Leeds

#### "Human Centered Vehicle Design in the Age of Agile Software Development: The role of driving simulatorsmassive simulation"

Driving simulation has been used for over thirty years by a range of automotive companies as part of the vehicle design process. Recently, as part of the Software Defined Vehicle (SDV) development process, agile software development has been integrated into the vehicle development process to leverage the wide set of benefits of the agile method. Typically driving simulators are developed by dedicated technical experts along side human factors specialists with experience with driving simulator-based experiments. This presentation will outline the history of driving simulation in the context of supporting the vehicle design process, typically as part of a waterfall development process as well as the typical agile software development method.



Ms. Tille Karoline Rupp | Head of Simulation, Porsche Engineering

## "Driving Innovation: The Power of Simulation, AI, and Big Data in Accelerating Development & Validation"

As automated driving systems become more complex, efficient and robust validation methods are essential. By leveraging simulation, AI, and Big Data, we aim to shorten development and validation cycles, following the left shift principle to detect and resolve issues early.

This keynote highlights the role of automation throughout the entire V-model, ensuring seamless toolchains from development to validation. Standardized, reusable, and consistent data enable Software-in-the-Loop (SiL) and Hardware-in-the-Loop (HiL) testing, as well as driving simulators (Driver-in-the-Loop – DiL), on a shared foundation. In combination with an intelligent test concept, they form the key to efficient validation.



#### Dr. Joost Venrooij | Project Lead Real-time Multibody Simulation, BMW AG

#### "Utilizing BMW's driving simulation center: virtual development, real challenges"

In 2021, BMW inaugurated the world's largest driving simulation center, a pivotal element of the company's virtualization strategy aimed at achieving significant cost reductions in the vehicle development process. Realizing this goal necessitates not only the development of innovative virtualization methodologies and simulation techniques, but also their effective operationalization and utilization. This presentation will provide an exclusive behind-the-scenes perspective on the challenges we faced—and the solutions we implemented—in bringing BMW's driving simulation center to life. It will outline how advancements in vehicle modeling methods, motion cueing techniques, validation approaches, and some practical lessons learned, were brought together to make virtual vehicle development a reality.

## **FKFS Simulators Visits**



During DSC 2025 you will have the opportunity to visit the Stuttgart Driving Simulator Test Center at FKFS and experience its latest developments. This visit is scheduled for September 24th, the first day of the event.

Since the start of operation in 2012, the large 8-axes simulator is continually improved in order to match new standards and requirements from industrial customers. It is being used for testing passenger cars as well as commercial vehicles and nowadays even features a full-scale truck cabin.

FKFS will show the simulator "in action" and give a brief overview on applications, such as chassis, powertrain and ADAS/AD development and human factors research.



 The visits are organized in five groups:

 Visit group A – 10h00 Visit group B – 11h00 Visit group C – 14h00 Visit group D – 16h00 Visit group E – 15h00

 FKFS, Stuttgart, Pfaffenwaldring 12, 70569 Stuttgart



The meeting point is at the main FKFS entrance. S2/S1/S3 > Pedestrian – 25 min from Stuttgart Hauptbahnhof, Arnulf-Klett-Platz 2, 70173 Stuttgart.

> Ph.: +49 711 685-65888 Fax: +49 711 685-65710 info@fkfs.de

## Thursday, September 25th 2025



#### 9:55 am

Examining the variations in situational awareness of distracted pedestrians using Markov Entropy modelling (Short)

XR

Kudurupaka, Vamshi Krishna (Indian Institute of Technology Roorkee (IIT R)); Choudhary, Pushpa

9:55 am

Design and Validation of a VR-Based E-Scooter Simulator using a 3DoF Motion Platform (Short)

ORAVI AN, Ana-Maria (Technical University of Munich, Germany); PECHINGER, Mathias; LINDNER, Johannes; KOLB, Maximilian; ZHENG, Tian; BOGENBERGER, Klaus AI, Machine Learning & Database Generation

## Al-based simulation scenario generation from the ADScene scenario platform

MOHELLEBI, Hakim (Renault, France); Martyr, Louis; Vaillant, Eric; Arnoux, Emmanuel; Régnier, Stéphane; Moirot, Franck; Dipiazza, Stanislas; Theel, Florian

Enhanced toolchain from HD or SD Maps to OpenDRIVE and complex 3D urban simulation: automating high-fidelity content creation including detailed downtown environments with complex sidewalks, for ADAS and AV development (Short)

GASBARRO, Luca (AnteMotion Srl, Italy); Ragni, Matteo

10:30 am

11:00 am

## BREAK

SCIENTIFIC PAPER SESSION

**Perception & Human Factors** 

König Karl Halle

Chairwoman : Viola Cavallo

PRODUCT SOLUTION SESSION Simulation Design and Motion Control

Reutlingen Konferenz Salle

Chairman : Martin Peller

## Program

11:00 am

Perception & Human Factors

## A Real-time Unconstrained EEG-Classifier for Mental Workload Monitoring

Osia, Seyed Ali (InnoBrain AB); Tahamtan, Zeynab; Zhao, Lin; Davari, Mahdi; Nybacka, Mikael

11:25 am

Effects of Steering Feedback via Noise, Vibration, and Harshness on Lateral Driver Performance in Dynamic Driving Simulators

BÖHLE, Maximilian (Kempten University of Applied Sciences, Germany; Technical University of Berlin, Germany); SCHICK, Bernhard; MÜLLER, Steffen

11:50 am

Impact of lighting conditions and motion blur on speed perception in driving simulation

COLOMBET, Florent (RENAULT, France); MERIEL, Camille; DESCHAMPS, Benoît; MIGNOTTE, Nicolas; REGNIER, Stéphane Simulation Design and Motion Control

## Workspace Constraints in Classical Cueing

BROWN, Craig Robert (BrownSim, United Kingdom)

# DDS: An immersive simulation tool

Stanglmayr, Maximilian (AMST-Systemtechnik GmbH, Austria); Prokop, Günther

Advancing Full Spectrum Simulation: VI-grade's Roadmap from Latency Compensation to Immersive, Zero-Prototype Virtual Development

Michael Hoffmann (VI-grade, Germany); Dave Bogema



## Program



## INDUSTRIAL PITCHES König Karl Halle Chairman : Florent Colombet

"Integrated collision testing for automobile mobility"

Dr Alexis Mifsud - CEO Mobpti

## "Transforming the realism and usability of driving simulation"

Sharan Ramachandran - Business Development Manager, rFpro

## "The New Virtual Proving Ground: End-to-End Solutions"

Salman Safdar - Business Development Director, Ansible Motion

## "Feels Like a Real Car": Creating Fully Immersive Driving Simulators"

Michael Hoffmann - Zero Prototypes Evangelist, VI-grade

4:00 pm

## BREAK

4:30 pm

KEYNOTE König Karl Halle

"Motion sickness: A challenge in real and simulated driving situations"

### Dr. Behrang Keshavarz

Senior Scientist, KITE Research Institute, UHN Adjunct Professor, Toronto Metropolitan University

4:55 pm

SCIENTIFIC PAPER SESSION

**Motion Sickness** 

König Karl Halle

Chairwoman : J-R Chardonnet

### Personal visual-vestibular coherence and simulator sickness

BOS, Jelte E. (TNO, Integrated Vehicle Safety, Netherlands; Vrije Universiteit, Behavioural and Movement Sciences, Netherlands); REUTEN, Anna Johanna Carola; CHEN, Colleen P.; WOLBERS, Jelle J.H.; van Emmerik, Martijn, L. PRODUCT SOLUTION SESSION
ADAS

Reutlingen Konferenz Salle Chairman : Martin Sevenich

## Physical Radar Sensor Modeling with AVxcelerate: An Evaluation

SUHRE, Alexander (Valeo, Germany); MESICEK, Jakub; KILLEDAR, Vinayak; FOMIN, Petr; MANDLIK, Michal; RAPP, Richard

## A Study on Generation of Randomized Parking Scene in Synthetic Environment

LEE, Younghoon (Hyundai Mobis Company, Korea); CHOI, Hyuckjun

## Program

6.0		
(5:20	<sup>0 pm</sup> Motion Sickness	ADAS
5:45	Comparing Simulator Sickness across Different Physical Motion Conditions in Younger and Older Adults Nowosielski, Robert J. (KITE -Toronto Rehabilitation Institute, University Health Network; Department of Psychology, University of Toronto, T); Keshavarz, Behrang; Haycock, Bruce C.; CAMPOS, Jennifer L.	Development of Advanced Rider Assistance Systems using Rider-in-the-Loop Simulators Amelunxen, Hendrik (dSPACE GmbH, Germany); de Vries, Edwin
	Contextual Influences on Simulator Sickness: A Comprehensive Analysis of Demographics, Gaming Experience and Simulation Context Complexity BERGEN, Melina (German Aerospace Center (DLR), Germany); Fischer, Martin	A CCAM testing environment based on mixed-reality approach GALI, Amit Shivanappa (Siemens Industry Software Netherlands B.V, The Netherlands); FORRAI, Alexandru
6:10	Introducing Surrogate Measures for Objective Simulator Sickness Evaluation (Short) LINDNER, Johannes (Technical University of Munich, Germany); BÖCKLE, Markus; PECHINGER, Mathias: BOGENBEBGER Klaus	ASAM Open Source Standards: Driving Innovation in Autonomous Driving Simulation (Short) SADEK, Ahmed (ASAM e.V., Germany)

SESSION CLOSURE

6:30 pm

## **COCKTAIL PARTY**

8:00 pm



Let's meet at 8 pm for our cocktail party!

Address available soon

Don't forget your badge and enjoy your evening!

## Friday, September 26th 2025





PAPER SESSION

**Motion** 

König Karl Halle

Chairman : Martin Fischer

## Development of longitudinal motion cueing algorithm with MPC and pre-positioning strategy

FANG, Zhou (Renault, France); NIDIOT, Jean-Michel; COLOMBET, Florent; WAUTIER, Didier; REGNIER, Stéphane SCIENTIFIC PAPER SESSION Driving Simulation Applications and Validation

Reutlingen Konferenz Salle

Chairwoman : Luz Amanda Garcia Galeano

## Validating Bicycle Simulators Active Steering in a CAVE Virtual-Reality environment

Zheng, Tian (Technical University of Munich, Germany); Pechinger, Mathias; Lindner, Johannes; Bogenberger, Klaus

## Program

#### 11:25 am

#### Motion

## Autoscaling: Minimizing Immersion Disruption in Motion Cueing via Model Predictive Control

Jain, Vishrut (Technical University of Delft, Netherlands); Lazcano, Andrea; Happee, Riender; Shyrokau, Barys

#### 11:50 am

## Autoscaling: Minimizing Immersion Disruption in Motion Cueing via Model Predictive Control

Jain, Vishrut (Technical University of Delft, Netherlands); Lazcano, Andrea; Happee, Riender; Shyrokau, Barys

#### 12:15 am

## Optimization-based Motion Cueing Algorithm for Worst Case Maneuvers in Driving Simulation

JACUMET, Robert (BMW Group, Germany; Technical University of Munich, Germany); WETZEL, Janik; WAGNER, Sebastian; SCHWIENBACHER, Markus; WOLLHERR, Dirk; LEIBOLD, Marion

### Driving Simulation Applications and Validation

## Force-based ABS Validation through Driving Simulator

Amadini, Matteo (Politecnico di Milano, Milan, Italy); Cantoni, Carlo; Gobbi, Massimiliano; Mastinu, Gianpiero; Milivinti, Massimiliano

## PRODUCT SOLUTION SESSION Driving Simulation Applications and Validation

Reutlingen Konferenz Salle

Chairman : Martin Sevenich

## Driver-in-the-Loop Testing of Genetic Algorithm-Tuned Active Anti-Roll Bar for Vehicle Lateral Stability

Sonnino, Samuel (Politecnico di Milano, Italy); Melzi, Stefano; Pirchio, Francesco; Verde, Raffaele; Caresia, Pietro; Manzoni, Alessandro; Vaini, Gianluca

## Accelerate Engineering for Mobility (Short)

MELNIKOVSKY, Izhar (Foretellix); HÄMMERLE, Simone (Mathworks)

12:30 ar	LUNCH		
2:00 pm	AUTOMOBILE OEM KEYNOTE SESSION König Karl Halle Chairman : Andras Kemeny		
"E	Driving Innovation: The Power of Simulation, AI, and Big Data in Accelerating Development & Validation"		
	<b>Tille Karoline Rupp</b> Head of Simulation, Porsche Engineering		
	"Utilizing BMW's driving simulation center: virtual development, real challenges"		
	<b>Dr. Joost Venrooij</b> Project Lead Real-time Multibody Simulation, BMW AG		
S	"Human Centered Vehicle Design in the Age of Agile Software Development: The role of driving simulators"		
<b>Dr. Richard Romano</b> Staff Researcher, General Motors Visiting Professor, University of Leeds			
:00 pm 🔵	SCIENTIFIC PRODUCT SOLUTION		

PAPER SESSION

Simulation Design

König Karl Halle

Chairman : Zhou Fang

PRODUCT SOLUTION SESSION

XR

Reutlingen Konferenz Salle

Chairman : Stéphane Régnier

## Program



END

### A teleoperation control center simulator for fleet operation of automated vehicles

GRABBE, Niklas (Technical University of Munich, TUM School of Engineering and Design, Chair of Ergonomics, Germany); HÜBNER, Maximilian; BENGLER, Klaus

## **Requirement Identification for Traffic Simulations in Driving Simulators**

TARLOWSKI, Sven (Institute for automotive Engineering ika – RWTH Aachen, Germany); ECKSTEIN, Lutz

## Driving Simulator Assessment of Speed-Adaptive Steering Ratios for Front and Rear Axles

Sonnino, Samuel (Politecnico di Milano, Italy); Melzi, Stefano; Mirra, Giacomo; Caresia, Pietro; Manzoni, Alessandro; Vaini, Gianluca

# Driver state monitoring employing the Human Performance Envelope model

GOBBI, Massimiliano (Politecnico di Milano, Milano, Italy); Mastinu, Gianpiero; Previati, Giorgio; Uccello, Lorenzo; Ceriani, Riccardo; Lantieri, Claudio; Landini, Elisa; Castellano, Andrea

## **Advancing Vehicle Platooning Systems**

HALIM, Carol Emad (BeamNG, Egypt); Ghantous, Milad Michel; Soubra, Hassan; Papamichail, Chrysanthi

# Effects of Arousal on Takeover Performance in Highly Automated Driving

CAI, Yuan (Université de technologie de Belfort Montbéliard (UTBM), France); BERT, Nicolas; SASANGOHAR, Farzan; ZARE, Mohsen

## Effect of Tactilely Perceivable Vibrations on Driver Behavior in Driving Simulators

HOLZAPFEL, Christian (FKFS, Germany); Reuss, Hans-Christian

## Incorporating A Priori Statistical Situational Knowledge into Model Predictive Control Algorithms

LEGRAN, Philipp (RWTH Aachen, Germany); RUSS, Fabian; BECKMANN, Jobst; TARLOWSKI, Sven; ECKSTEIN, Lutz

## Development of a Questionnaire for Assessing Subjective Fidelity in Dynamic Driving Simulators

Pelzer, Julia (RWTH Aachen University, Germany); Altmann, Stella Marie; Russ, Fabian; Günther, Thomas

## Analyzing driving speed using Mixed Regression Models with Random Effects based on driver profile

RIBEIRO, Ruy Santos (Sao Carlos School of Engineering – University of Sao Paulo, Brazil); ALBARRACIN, Orlando Yesid Esparza; LAROCCA, Ana Paula C.; BERNUCCI, Liedi Legi B.

## Enhancing MPC-based MCA through Deep Learning for Adaptive Tuning

Al-serri, Sari (Deakin Univercity, Australia); Asadi, Houshyar; Mohamed, Shady; Qazani, Mohammadreza Chalak; Nahvand, Saied i

### Influence of visual output devices on speed perception in car simulators

Rehm, Michaela Jaqueline (German Aerospace Center (DLR), Germany); Gröne, Kilian; Bergen, Melina; Fischer, Martin

## Use Case Specific Selection of Motion Cueing Algorithms and Tuning for Lateral Dynamics on Multi-Axes Motion Systems

SCHLUETER, Marco (FKFS, Germany); Holzapfel, Christian; Gerd, Baumann

## Correlation between LiDAR point cloud intensity and fog level: mathematical modeling and attenuation Simulation

NOUTATIEM GUIAFAING, Youri Mikhail (IRT SYSTEMX, France); RIDZUAN, Ammar; JAVID, Gelareh; GAUTHEREAU, Otmane

## Quantifying the Driving Performance of Reference Driver Models for AD Evaluation in Highway Scenarios

BECKMANN, Jobst Nikolaus Bertram (RWTH Aachen University, Germany); ECKSTEIN, Lutz

## Comparison and Experience from using Mixed and Virtual Reality Headsets for Driving, Pedestrian, and Bicycle Simulators

ANDERSSON, Anders (Swedish National Road and Transport Research Institute (VTI), Sweden); ARAMRATTANA, Maytheewat

# Advancing cognitive load detection in simulated driving scenarios through deep learning and fNIRS data

KHAN, Mehshan Ahmed (Deakin University, Australia); Asadi, Houshyar; Qazani, Mohammad Reza Chalak; Najdovski, Zoran; Oladazimi, Sam; Lim, Chee Peng; Nahavandi, Saied

## Experience first, then build

GRÖTZINGER, Jonas (EDAG Engineering GmbH)

# A smart assistive crosswalk to alert distracted pedestrians at a signalized intersection

Kudurupaka, Vamshi Krishna (Indian Institute of Technology Roorkee (IIT R)); Choudhary, Pushpa

## A Tool to perform Scenario-based Evaluation of Non-Driving Related Activities using Mixed Reality

SUBRAMANIAN, Thirumanikandan (Institute for Engineering Design and Industrial Design, University Stuttgart, Germany); SCHAEFFER, Miriam; REMLINGER, Wolfram

## A Study on the Evaluation Method of Image Recognition Performance Using Simulation

PARK, Kyunwoo (Hyundai Mobis, Korea)

## Unlocking Potential: Integrating XiL Models in Driving Simulators for Enhanced Brake, Steering, and ADAS Systems

Trunzer, Stefanie (University of Applied Sciences Kempten, Germany); Tworek, Anton; Schick, Prof. Bernhard

## Max-Eyth Saal



With the cooperation of



Organized by





## Friedrich-List Saal







## This exhibitors list is provisional and may change between now and DSC 2025 Europe XR

## Max-Eyth Saal

Cosin	31
FKFS	30
MdynamiX	32
Pertech	33
AVES Reality	34
Arts & Métiers	37

## Friedrich-List Saal

Smart Eye	2
Thierry Clémot	3
ASAM e.V	4
Eviden	5
Mobpti	7

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**NVS**IMULATION





ITWM Fraunhofer	10
Safety Pool	11
WWG	11
Ansible Motion	12
rFpro	13
INFO.instruments Tech	14
Sensodrive	16
AV Simulation	17
Vi-grade	19
Dynisma	21
Antemotion	22





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**Premium Sponsor** 

BrownSim is the creator of ProCue, the simulator motion workflow tool. Dr Craig Brown, an alumni of McLaren and Toyota Gazoo Racing's simulator programs and published author in the fields of motion cueing and "derivative-free" optimization, is democratizing elite simulator workflow.

Also available in a consulting capacity, he invites you to benefit from his 15 years of experience in the simulation domain.

www.brownsim.io

## M dynamiX

MdynamiX AG provides testing solutions for all stages of the development process. Founded by four professors of the University of applied Science Munich and Kempten, Mdynamix AG offers various engineering services. With a deep focus on vehicle dynamics, acoustics and ADAS, the products are tailored to the customer needs. The integration of the Pfeffer steering model within a force feedback actuator as well as HiL testbenches for steering and braking into driving simulators are one of the hot topics at the moment.

www.mdynamix.de

#### Gold Sponsor

# ΑΝΤΕΜΌΤΙΟΝ

AnteMotion is an Italian engineering company specialized in cutting-edge simulation tools for ADAS and autonomous vehicle validation. We provide not only software licenses but full-stack solutions tailored to customer requirements. Our suite includes:

- MAZE: Fast creation of ASAM OpenDRIVE road networks from HD maps like HERE HD Live Maps.

- PROCEDURAL WORLDS: Automated generation of realistic, OpenDRIVE-aligned 3D environments, exportable in multiple formats.

– MIDGARD: A modular simulation platform built on Unreal Engine® 5.4 for testing ADAS/AV in real time.

We also offer custom engineering services for tailored integration and support.

www.antemotion.com



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www.dynisma.com



ASAM e.V. is a not-for-profit organization that promotes standardization in automotive development, testing, validation and diagnostics. ASAM 'accelerates engineering for mobility' by providing a platform and bringing experts together to agree on standards, exchange information, and to allow collaboration in a legal and anti-trust compliant way. ASAM standards span a wide range of use cases in automotive development, test, and validation. They define file formats, data models, protocols, and interfaces. All ASAM standards aim to enable easy exchange of data and tools within and across tool chains. They are applied worldwide.

ASAM continues to strengthen its focus on simulation-based testing and validation for ADAS and automated driving systems. The well-established ASAM OpenDRIVE and ASAM OpenSCENARIO standards, complemented by ASAM OpenCRG, ASAM OSI and ASAM OpenLABEL, provide the foundation for virtual testing. In 2025, two new standards were added to enhance the ecosystem:

• ASAM OpenMATERIAL 3D 1.0.0, the first open standard for defining and exchanging 3D material and geometry data. It enables consistent definitions of physical material properties and standardized 3D model structures for more accurate simulations.

• ASAM OpenODD 1.0.0 specifies a standardized data model to describe the operational domain (OD), current operational domain (COD), and the operational design domain (ODD) for ADAS, DCAS and ADS. It provides a technology-independent data model in UML, defining how taxonomies and related concepts are structured and interconnected, and details how these elements are represented and exchanged.

Learn more about the full ASAM OpenX portfolio at our booth.

#### www.asam.net



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www.safetypool.ai



Arts et Métiers Institute of Technology is a French « Grande Ecole d'Ingénieur » founded in 1780 specializing in mechanical, industrial and energy engineering. The Laboratory of Engineering in Cyberphysical Systems (LISPEN) has an education and research team specialized in XR for 25 years with extensive work on individualized interaction in immersive environments, cybersickness reduction and perception issues. The team has large immersive facilities including a 5-sided CAVE, head-mounted displays, multi-sensory interaction devices, physiological and behavioral measurement devices. LISPEN has also an activity in driving simulation, with facilities including dynamic and static simulators, coupled with immersive technologies, and addressing scientific issues related to HMI, simulator sickness, perception and motion cueing.

www.institutimage.ensam.eu



The Driving Simulation Association (DSA) aims to promote and encourage driving simulation and XR within all aspects: research, development, applications, and products, facilitating communication between individuals and academic as well as industrial organizations and contributing to the organization of scientific conferences. DSA is also proposing dedicated services in the use of driving simulation and XR.

driving-simulation.org



Since 1927, the "Société des Ingénieurs de l'Automobile" (Automotive Engineers Society) brings together all the specialists and enthusiasts of the automotive industry and its technologies. It has more than 1,800 individual or group and relies on a database of more than 18,000 car experts and our aim is to promote the development and knowledge sharing of engineers, managers and technicians in the automotive field. SIA is built on its diverse communities of experts covering all areas of new technologies in product engineering as well as quality, purchasing and production from the automotive and reflects on the vast stakes of the second automotive revolution, with the 21st century in the spotlight: autonomous vehicle, hyper connected vehicle, revolution towards affordable zero emission and electrification, Big Data and cybersecurity or the emergence of artificial intelligence.

SIA is renowned in the world of automotive engineering for its conferences, workshops and congresses of international level through more than thirty annual scientific meetings.

SIA participates actively in the French automotive industry in connection with the main professional organizations and on an international level as a member of the FISITA.

www.sia.fr

### Université Gustave Eiffel

The Gustave EIFFEL University was born out of the merger of Université Paris-Est Marne-la-Vallée and IFSTTAR, the Institute for European Research on Cities and Regions, Transport and Civil Engineering. It includes a school of architecture, EAV&T, and three engineering schools, EIVP, ENSG Géomatique and ESIEE Paris. By creating for the first time in France a three-way partnership between a university, research organisations and schools of architecture and engineering, it will have the specific purpose of fostering national and international partnerships to meet the major societal challenges generated by the profound changes in urban areas, which are already home to 55% of mankind.

www.univ-gustave-eiffel.fr



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www.asam.net



driving simulation excellence

Ansible Motion creates and deploys a wide range of Driver-in-the-Loop (DIL) simulators around the world for all types of vehicles, driving scenarios, experiments and product development aim s. From small desktop systems to full size dynamic simulators, Ansible

Motion's products deliver class leading virtual test driving experiences. Featuring advanced

computational and mechanical performance capabilities, they create compelling virtual worlds for drivers and product development engineers.

www.ansiblemotion.com

22

12



AnteMotion is an Italian engineering company specialized in cutting-edge simulation tools for ADAS and autonomous vehicle validation. We provide not only software licenses but full-stack solutions tailored to customer requirements. Our suite includes:

- MAZE: Fast creation of ASAM OpenDRIVE road networks from HD maps like HERE HD Live Maps.

 PROCEDURAL WORLDS: Automated generation of realistic, OpenDRIVE-aligned 3D environments, exportable in multiple formats.

– MIDGARD: A modular simulation platform built on Unreal Engine® 5.4 for testing ADAS/AV in real time.

We also offer custom engineering services for tailored integration and support.

www.antemotion.com



www.avsimulation.com

17

34



AVES Reality automates HD-map 3D virtual world creation, to empower simulationbased testing and synthetic training data generation in ADAS and AD. With our Alenabled solution, based on satellite images and other real-world geodata, we follow the vision to deliver any place on earth as simulation-grade 3D environment including an own HD-roadmap.

www.avesreality.com

31



cosin scientific software AG offers simulation software for advanced tire and road surface modeling for vehicle dynamics simulation. The key product, FTire, is the leading high-frequency and multi-purpose tire model.

Development of the physical model started in the late 1980s and FTire subsequently established its position as the reliable and trusted tire simulation software for vehicle comfort, road loads and NVH analysis. Since 2009, FTire development, support, and engineering services are provided by cosin scientific software, headquartered in Munich, Germany.

Virtual testing is key and driving simulators and other hardware-in-the-loop systems are increasingly replacing real tests. The consistent availability of FTire throughout the development cycle for all application cases where tire dynamics have an important effect on the vehicle dynamics is unique and represents an enormous benefit that saves time and money.

Together with several partners worldwide, cosin scientific software offers the full range of support for tire data measurement, parameter identification, and road surface measurement.



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science + computing enables engineers to significantly accelerate their innovation processes – both in research and in virtual and digital product development. With in-depth industry expertise, we design, implement and operate complex IT

environments for the following core disciplines according to their needs.



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www.fkfs.de

12



Descriptive text coming soon

www.inforinstrumentstech.com



www.ikts.fraunhofer.de

11

32



MdynamiX AG provides testing solutions for all stages of the development process. Founded by four professors of the University of applied Science Munich and Kempten, Mdynamix AG offers various engineering servuces. With a deep focus on vehicle dynamics, acoustics and ADAS, the products are tailored to the customer needs. The integration of the Pfeffer steering model within a force feedback actuator as well as HiL testbenches for steering and braking into driving simulators are one of the hot topics at the moment.



Mobpti's ambition is to facilitate the safety demonstration and validation phases of automated vehicles by developing software tools that perform a detailed, configurable, offline but rapid analysis of collision risks, which is automatically adapted to each driving situation. Our services can address vehicle certifiers, manufacturers, and equipment suppliers. We can also extend our offering to include other analysis criteria, such as ecological and comfort factors, and any type of ground vehicle, including agricultural and warehouse robots.

www.mobpti.com



www.pertech-solutions.fr



rFpro, a member of the AB Dynamics Group plc, provides a simulation environment for the automotive and motorsport industries. It is used for the development and testing of autonomous vehicles, ADAS, vehicle dynamics and human factor studies. rFpro's automotive customers are the world's largest car manufacturers, tier one suppliers and sensor developers. We enable them to simulate, test and validate new sensors, control systems and vehicle hardware systems. The top ten OEMs that were early adopters of rFpro technology have already launched road cars which started their development, not on a test track, but in a rFpro's virtual environment.

www.rfpro.com

13

33



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www.safetypool.ai

11



Sensodrive Simulators. Perfect Simulations – Perfect Results. Sensodrive is a spinoff from the German Aerospace Center (DLR). The company was founded in 2003 by researchers from the DLR. Sensodrive is specialized in torque technology as well as in high-performance simulators. Sensodrive develops and produces tens of thousands of torque sensors and torque-controlled actuators every year for renowned companies worldwide. It was first company to launch specialized torque sensors for robotic drives. In addition to its leading role in drive technology, Sensodrive is known for its state-ofthe-art force feedback products. The sophisticated simulators stand out due to sensitive force feedback and impressive realism. From the steering wheel to pedals, to rotary and push buttons, or an entire simulator cockpit – the Sensodrive simulators enable highend simulations in research and development. You're not just anybody. And our products aren't just any products. Welcome to Sensodrive.

www.sensodrive.de



Smart Eye is the global leader in Human Insight AI, technology that understands, supports and predicts human behavior in complex environments. Bridging the gap between humans and machines for a safe and sustainable future. Smart Eye was founded in 1999, is publicly traded and headquartered in Sweden with offices in the US, UK, Germany, Denmark, Egypt, Japan, Singapore and China.

Smart Eye offers the world's most advanced eye tracking systems for analyzing human behavior. Offering unparalleled performance in complex environments, our carefully crafted instruments enable unparalleled insights into human behavior and human-machine interaction in automotive, aviation, assistive technology, media & marketing, behavioral science and many more fields.



Thierry CLEMOT's company creates highly precise 3D environments for car simulators. These real environments are created from high-accuracy 3D laser scans that we perform ourselves. Available quickly, our 100 km urban models "CITY" allow us to create every exercise needed in fictive environments.

Today, our models are used by car manufacturers in the US, Asia, and Europe. What about you?

Don't hesitate to consult the database catalog on thierryclemot.com.

www.thierryclemot.com



VI-grade is the global provider of disruptive vehicle development solutions that are paving the way to developing vehicles with Zero Prototypes. Its human-centric solutions comprise industry-leading real-time simulation software, professional driving simulators and Hardware-in-the-Loop solutions that accelerate product development across the transportation industry.

The company's suite of scalable driving simulators covers a wide performance range to assess the multi-disciplinary driving experience. These proven solutions enable OEMs, suppliers, research centers, motorsport teams and universities to reduce physical prototypes while accelerating innovation in their quest to get ever nearer to achieving the ultimate development goal of Zero Prototypes.

VI-grade is part of HBK's Virtual Test Division, which focuses on providing real-time software, simulator, and hardware-in-the-loop solutions to virtually test products throughout the development cycle, helping companies accelerate innovation and reduce time-to-market, and improve their competitive advantage.

Since September 2018, VI-grade has been part of Spectris plc. The firm conducts business in four major segments – materials analysis, testing & measurement, in-line instrumentation and industrial controls – and serves a broad range of industries ranging from automotive and aerospace to electronics, energy, mining and pharmaceuticals.

www.vi-grade.com

11



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The Driving Simulation Association aims to:

- promote and encourage driving simulation in all its aspects: research, studies, developments, applications and products;
- facilitate communication between people involved or interested in driving simulation;
- contribute to the organization of scientific conferences in the area of driving simulation, Driving Simulation Conference (DSC) Europe, DSA seminars
- **organize special interest groups** (SIG) Driving Simulation Experience (SIGDSEP)
- · inform about recent events new and trends

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#### **Driving Simulation Association**



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