GUIDEBOOK

DSC 2026 EUROPE XR

Driving Simulation & eXtended Reality Conference & Exhibition

Palais des Congrès, Antibes | France

Organized by

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Sponsored by

DSC 2026 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 25th edition follows that of 2025, held in Stuttgart, with about 300 participants. The exhibition is coming back towards 30 professional exhibitors and up to 300 on site participants.

Themes include state of the art in driving simulation technology, research and developments, extended with progressively emerging virtual and augmented reality (XR) developments. Human factors and motion rendering nevertheless will stay as now traditional axes of the conference.

You are welcome to the DSC 2026 Europe Conference and exhibition, organized by the Driving Simulation Association, in cooperation with Arts et Métiers Institute of Technology and Gustave Eiffel University, with the support of Renault, SIA, ASAM and Laval Virtual, and the sponsorship of AVSimulation, Cosin, Dynisma and MathWorks, held on September 16-18 in Antibes!

DSA

The way for tomorrow's vehicle

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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 2026!

Palais des Congrès, Antipolis
60 Chemin des Sables, 06160 Antibes - France

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

Clément Bourhis | *Conference Assistant*

Driving Simulation Association

Bilal Kasim | *Conference Assistant*

Driving Simulation Association

Elias Maillot | *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)

Scientific Committee Members

Mohammad Bahram	BMW Group R&T (Germany)
Gerd Baumann	FKFS (Germany)
Klaus Bengler	Technical University Munich (Germany)
Jonas Jansson	VTI (Sweden)
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)

Scientific Committee Members

Stéphane Espié	Université 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)
Philippe Mathieu	University of Lille (France)
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)
Günther Prokop	Technische Universität Dresden (Germany)
Richard Romano	University of Leeds (United Kingdom)
Joost Venrooij	BMW Group (Germany)

Technical Committee

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)
Andras Kemeny	Driving Simulation Association (France)
Martin Peller	BMW (Germany)w
Stéphane Régnier	Renault (France)
Martin Sevenich	AUMOVIO (Germany)
Georg Stettinger	Infineon (Germany)
Sebastian Wagner	BMW (Germany)

Opening Keynote Speakers

Dr. Andras Kemeny | *President and co-founder,* ***Driving Simulation Association, France***

Conference Chairman

"XR based Driving Simulation for Vehicle Engineering Design, Testing and RegulationAugmented Reality and Autonomous Vehicles"

If XR based driving simulation is used since several decades , it is introduced today in many affordable as well as high-performance driving simulation systems, including digital driver station models and AI generated virtual environments and scenarios for vehicle engineering design, testing and regulation for ADAS and autonomous vehicles.

Bolin Zhou |
CATARC Intelligent and Connected Technology Co., Ltd., China
ISO TC22/SC33 WG9 Convenor
Technical Sterring Committee Member, ASAM

"Activities of ISO on Automated Driving and Simulation"

The presentation will present the activities of simulation and simulation-based testing in ISO TC22/SC33, the Subcommittee on 'Vehicle dynamics, chassis components and driving automation system testing'. It will show how the work on ISO could help the testing and safety insurance for the newly developed ADSs.

Nicolas Dalmasso | *Chief Technologist, Synopsys, USA*

"OpenUSD as the Common Language for Driving Simulation"

Driving simulation workflows increasingly depend on complex 3D environments, vehicle models, sensor configurations, traffic scenarios, and data generated by many different tools. Integrating these elements remains difficult because assets and scenarios are often represented using proprietary formats and disconnected data pipelines. This presentation explores how OpenUSD can provide a common data foundation for the driving simulation ecosystem. Through its composition model, extensible schemas, and non-destructive workflows, OpenUSD enables teams to standardize 3D assets, assemble scenarios from multiple data sources, manage variations, and connect simulation, visualization, and engineering tools more efficiently. The presentation will also discuss how OpenUSD can improve interoperability, reuse, and scalability across the complete driving simulation workflow—from content creation and scenario definition to large-scale simulation and analysis.

OEM Keynote Speakers

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

Alessandro Salgarello | *Chassis Advanced Engineer,* ***Hyundai, Europe***
Pilyoung Jeong | *Senior Research Engineer,* ***Hyundai, Korea***

"Engineering Emotion: Driving Simulation for Efficient and Flexible Virtual-Driven Development at Hyundai Motor Group"

How driving simulation is helping Hyundai Motor Group to integrate subjective driver feedback with objective performance metrics, while improving process efficiency. The presentation highlights how a robust and flexible virtual-driven development workflow enables simultaneous, joint development between NamYang R&D (Korea) and HMETC (Europe).

Stéphane Régnier | *Expert Leader Immersive Simmulation and Virtual Reality,* ***Renault, France***

"The convergence of XR and driving simulation for customer-centric vehicle"

This keynote highlights the growing convergence between XR and driving simulation, combining immersive visualization and dynamic vehicle behavior to support customer-centric vehicle design. It shows how this unified approach enables earlier, more holistic evaluation of the customer experience across the development process.

Péter Kovács | *Senior Vice President,*
aiData, aiMotive – a Stellantis company, Hungary

Frida Kóbor | *Product Manager,*
aiData, aiMotive – a Stellantis company, Hungary

"Data Quality in Multi-sensor Integration for Physical AI (Lessons from Automotive and Real-World Data applications)"

This presentation explores the practical data quality challenges involved in integrating heterogeneous multi-sensor recordings for automotive and Physical AI applications. It highlights key aspects such as recording conditions, camera and LiDAR quality, GNSS, calibration, and sensor synchronization, illustrating how seemingly small inconsistencies can affect the usability of real-world data. The presentation shows how systematic data quality assessment helps identify these issues early and enables more robust downstream applications such as auto-annotation and neural reconstruction.

Industrial Keynote Speakers

Will Snyder | *Commercial Manager, **Dynisma, United Kingdom***

"The Role of High Frequency Content in Driving Simulators"

Dynisma's latest DMG-360XY driver-in-the-loop platform combines 5m XY excursion, unlimited yaw, 3–4ms latency, and frequency response within 3dB of demand up to and beyond 100Hz, enabling a single simulator to support ride, handling, and NVH applications without compromise.
This presentation explores the role of high frequency content in modern driving simulation, its impact on driver perception and engineering correlation, and the opportunities it creates for more effective virtual vehicle development.

Gerald Hofmann | *CEO, **cosin scientific software, Germany***

"Rethinking Virtual Tire Data Management"

Virtual development has transformed how vehicles are designed. Today, critical decisions are made long before a physical prototype exists, with simulation playing a central role in engineering workflows. Yet the way digital tire models are managed often still follows outdated processes – fragmented storage, unclear versions, and inefficient collaboration. cosin is presenting cosin/hub, a new approach to organizing and managing virtual tire data. By combining high-fidelity real-time tire simulation with a modern data platform, development teams gain structured access, transparent versioning, integrated quality control, and scalable computing resources. The result is a streamlined infrastructure that removes friction from simulation workflows and enables engineers to fully leverage virtual prototyping.

Thomas Nguyen | *Chief of Software and Products Officer, AVSimulation, France*

"From Validation Factories to Mobility Digital Twins: The Next Generation of Driving Simulation"

As vehicles become increasingly software-defined, connected, and continuously updated, validation complexity is growing beyond the capabilities of traditional testing approaches.
This keynote explores how the industry is evolving toward Validation Factories, where requirements, scenarios, simulation campaigns, and performance assessment are connected within a continuous engineering workflow.
By enabling scalable, repeatable, and traceable validation, simulation is becoming a strategic capability for accelerating development and increasing confidence in software releases.
The presentation also examines the emergence of Mobility Digital Twins, extending simulation beyond individual vehicles to drivers, traffic ecosystems, connected infrastructure, and entire cities.
Through examples spanning human-in-the-loop studies, ADAS validation, sensor simulation, and large-scale traffic modeling, attendees will discover how modern simulation platforms support the next generation of virtual engineering.
The keynote presents a vision in which Driver, Vehicle, Traffic, and Infrastructure Twins converge into a unified mobility ecosystem, providing the evidence and insight needed to validate the future of transportation before it reaches the road.

Industrial Pitch Speaker

Stefan Vorderobermeier | *Business Development Manager, Ansible Motion, United Kingdom*

"Where Virtual Meets Reality – The Next Generation of Driving Simulators"

Rising requirements for seamless development cycles drive the demand of physical accuracy and consistency with real-world operation. In this context, Ansible Motion analyses the often less visible key technologies and integration mechanisms that enable significant improvements in testing efficiency and validity.

Gabriele Ferrarotti | *Head of Marketing - Simulation, VI-grade / HBK, Italy*

"Beyond Motion: From Full-Spectrum Simulation to Smart Testing"

Engineering teams face increasing pressure to develop more complex products in shorter timeframes while making critical decisions earlier in the process. Smart Testing addresses this challenge by connecting virtual simulation and physical testing through a continuous, data-driven workflow. By enabling simulation models and real-world measurements to validate and improve each other throughout development, organizations can accelerate learning, increase confidence in engineering decisions, and reduce late-stage risk. This presentation explores the principles of Smart Testing and how integrated virtual and physical testing can support modern, data-driven product development.

Simon Holloway | *Commercial Director, Dynisma, United Kingdom*

"T he Future of Driving Simulation Isn't Hardware. It's Partnership."

From Formula 1 teams and global automotive OEMs to leading research institutions such as TU Graz, Dynisma partners with customers to develop simulation capabilities that extend far beyond hardware. Combining software-agnostic simulator platforms with expert support and integration services, Dynisma helps organisations embed simulation into their engineering processes and accelerate the transition towards virtual-first vehicle development.
This collaborative approach extends across the wider simulation ecosystem to deliver complete solutions that integrate seamlessly into customer workflows, advancing simulation capability, improving engineering outcomes and accelerating the adoption of virtual development methodologies.

Farouk El Farji | *Account Manager, **IPG Automotive, France***

"Driving the Future of Automotive Development: Continuity, Simulation & Generative AI"

Discover how seamless development, high-fidelity simulation, and AI-powered engineering work together to accelerate innovation and improve development efficiency.

Christoph Bode | *CTO/Owner, **Project: syntropy, Germany***

"LED Display – The end of the projection era ?"

Providing high-end Visual Display Systems as a Systems Integrator to both the Training & Simulation and Entertainment market, for over 20 years, the technology to rely on has been projection. We have seen technology develop over the years moving us away from lamp based over to solid state products.
Now there is a new contender on the market and there are two key questions to be considered: Is projection still the benchmark for the most demanding large-field, high-acuity simulation applications? Is dvLED no longer an alternative technology in simulation – is it a primary technology option?

Craig Brown | *Director, **ProCue Ltd, United Kingdom***

"The Performance Ceiling of your Simulator is Higher than you Think"

Before vehicle accelerations reach a motion-based driving simulator, there is a crucial transformation: motion cueing. Without it, a simulator cannot function. However, poor motion cueing can effectively nullify the value of a motion platform, even producing negative value if drivers draw incorrect conclusions from the flawed feedback.
Motion cueing algorithms have many parameters, causing mind-boggling, exponential parameter-space growth. Indeed, maximizing cueing quality is a delicate process, further complicated by the subjective nature of what defines "good cueing." In this talk, you will learn how to deliver higher cueing quality in less time, ensuring your motion platform reaches its true potential.

Industrial Pitch Speaker

Florian Albert | *CEO | Co-Founder, **AVES Reality, Germany***

"Automating the generation of simulation-ready maps and 3D environments for future AV validation"

Simulation-ready maps and 3D environments remain one of the major bottlenecks for scalable autonomous vehicle validation. This presentation introduces an automated workflow that transforms geospatial data into high-fidelity HD maps and digital environments, ready for simulation with minimal manual effort. Learn how automation enables faster scenario creation, broader ODD coverage, and seamless integration into modern AV validation toolchains. The result is a significant reduction in time and cost while accelerating the development and validation of future autonomous driving systems.

Luca Gasparro | *CEO, **AnteMotion, Italy***

"Solution Study: HD Maps to 3D Simulation Environments for Virtual Validation, Digital Twins, and Safety Evidence"

Simulations are decisive in developing and validating advanced driver-assistance (ADAS) and autonomous driving (AV) systems. AnteMotion tackles a key industry challenge: the need for scalable, automated simulation tools and realistic content. The solution introduces a fully automated pipeline that transforms HD or SD real-world maps into OpenDRIVE files and procedurally generates detailed 3D environments, based upon MAZE and PROCEDURAL WORLDS. These environments, enriched with realistic road elements and optimized for real-time photorealistic rendering, streamline ADAS and AV testing within AnteMotion's integrated simulation engine MIDGARD AUTOMOTIVE.

Hervé Pochat | *CEO, **Neural Balance Innovation, France***

"The Missing Link in Driving Simulation: The Inner Ear"

A simulator can reproduce everything except what the inner ear feels. That is where discomfort in immersion comes from, not from the image or the platform. Sensitivity to sensory conflict changes from one person to the next, and it does not improve when the platform improves. With StimBox®, Neural Balance Innovation acts directly on the balance organ, for longer and more comfortable sessions.

Gong Zaiyan | *CEO , **AMMI Intelligent Technologies, China***

"From Real-World Contexts to Virtual Validation: DeCoDe Context & Demand Library for HMI Testing and AI Training"

Automotive HMI development requires simulation to reflect not only vehicles and roads, but also real user contexts. AMMI developed DeCoDe, a Context & Demand Library that translates real-world driving and cockpit scenarios into structured user demands.
Based on DeCoDe, driving simulation can evaluate HMI usability across different countries, user groups, and scenarios. The same structured scenarios can also support the training and evaluation of cockpit AI Agents.
This presentation introduces a context-driven approach connecting user research, HMI simulation and validation, and cockpit AI training.

Jörn Stieger | *Sales Manager , **3D Mapping Solution, Germany***

"Precision In, Confidence Out: High-Precision Data as the Foundation for Simulation"

Simulation is becoming increasingly important in an industry characterized by ever-shorter development cycles. To reliably replace physical testing, virtual validation requires highly accurate and trustworthy digital twins. This applies not only to the vehicle and its subsystems, but equally to the surrounding environment and test conditions, especially on proving grounds. High-fidelity ground truth data is therefore the essential foundation for building trust in simulation results and enabling scalable virtual testing.

1:00 pm

Registration & Coffee
2nd floor

2:00 pm

Special Session

Antipolis Auditorium

Standards for driving and massive simulation of ADAS and autonomous vehicles in vehicle engineering design and regulation.

Moderator - **Marius Dupuis**
(ASAM, Germany)

Standards to harmonise the scenario-based ASD Safety demonstration.

Emmanuel Arnoux
(Renault, France)

Virtual Validation Toolchains and the role of standards

Antje Rohrbeck
(Synopsys, Germany)

ASAM OpenX as the Backbone for Credible Perception Sensor Simulation

Philipp Rosenberger
(Persival, Germany)

Special Session
Antipolis Auditorium

From Code to Confidence:
Practical Quality Standards for Massive Simulation Environments.

Basit Khan
(AAI Innovation, Germany)

The role of standards in scenario-based testing.

Yves Peirsman
(Deontic, Belgium)

3:45 pm

Break
2nd floor

4:00 pm

Round Table
Antipolis Auditorium

The future of XR helmets vs. multi-view CAVEs in driving simulation.

Moderator - **Jean-Rémy Chardonnet**
(Arts et Métiers Institute of Technology, France)

Human perception of virtual object's scale on a large immersive display

Frederic Rabellino
(Volvo, France)

High-quality 3D immersive simulation with Multiview LED-Display-Systems

Steffen Hergert
(xCaveTechnology, Germany)

Technical evaluation of vehicle interior lighting using Mixed Reality in driving simulation

Henrik Gommel
(GOTECH, Germany)

How to Create and Deploy XR Collaborative Content on Secure Infrastructures easily

Jesus Garrido
(VIRTUALWARE, Spain)

Light weight Multi-View setups for Driving Simulation : An alternative to HMDs

Matthias Bues
(VIS4ALL AG, Switzerland)

5:30 pm **Closing**

8:00 am

Registration & Coffee

2nd floor

8:40 am

Conference Opening

Antipolis Auditorium

Andras Kemeny, Conference Chair
(President, Driving Simulation Association
Member of the Board of Directors, ASAM)

"XR based Driving Simulation for Vehicle Engineering Design, Testing and Regulation"

9:00 am

Keynote

Antipolis Auditorium

"Activities of ISO on Automated Driving and Simulation"

Bolin Zhou

(Technical Director, CATARC Intelligent and Connected Technology Co., Ltd., China)

9:25 pm

Scientific Paper Session

Antipolis Auditorium

Perception & Human Factor I

Chairman : Jelte Bos

Advanced Road Feedback in Driving Simulators: The Role of Physical Tire Models

Maximilian Böhle
(Technical University of Berlin, Germany)

Benjamin, Rieff

Product Solution Session

Fitzgerald Room

DiL Simulation

Chairman : Sebastian Wagner

From On-Road Testing to Ride Replay: Validation of Simulator-Based Ride Comfort Assessment using a Specialized Driving Simulator

Stefan Jeindl
(Magna Steyr Fahrzeugtechnik, Graz, Austria)

Hofmaninger, Philipp; Kovacevic, Paul; Nolan, Leo; Farmer, Gavin; Magosi, Zoltan Ferenc; Koglbauer, Ioana Victoria; Eichberger, Arno

9:50 pm

Occupant behaviour, cognition, and Human-Machine Interaction in Level 3 Autonomous Vehicle driving simulator

Ali Olayan
(Expleo Group, France)

Chardonnet, Jean-Rémy; Sandoz, Baptiste

Engineering the Full Spectrum: The Evolution of VI-grade Driving

Stefano Bernini
(VI-grade, Germany)

Ambrogi, Francesco; Formaggia, Fabio

10:15 pm

Perception & Human Factors I

Effects of Cognitive Load, Age and Gender on Driver Control Parameters (Short)

Víctor Nalda-Tárrega
(Instituto Biomecánica Valencia, Spain)

Belda-Lois, Juan-Manuel; Mateo-Martínez, Begoña

DiL Simulation

An ISO Initiative Towards Standardizing Driving Simulators (Short)

Chantal Himmels
(BMW AG, Germany)

Chida, Tomoya; Fischer, Martin; Fujimoto, Masaki; Kuwabara, Kazuki; Kyogoku, Hitoshi; Lindner, Johannes; Muramatsu, Hideyuki; Ruß, Fabian; Marcus, Schmitz; Martin, Sevenich; Atsushi, Tsubouchi; Stefan, Vorderobermeier

10:30 am

Break
2nd floor

11:00 am

Scientific Paper Session
Antipolis Auditorium
Motion Cueing & Control & AI I
Chairman : Zhou Fang

A Model-Predictive Control Algorithm for Matched Lateral/Yaw Motion

Maurice Kolff
(Delft University of Technology, The Netherlands)

POOL, Daan M.; RICCIARDI, Vincenzo; HEIDERICH, Martin; ZANTNER, Frank; SHYROKAU, Barys

Product Solution Session
Fitzgerald Room
ADAS
Chairman : Chantal Himmels

Scenario-Based Approach in System Engineering: Toward an Assessment of Coverage

Erwan Revert
(IRT SysteX, France)

Bohn, Christophe; ADJED, Faouzi

Motion Cueing & Control & AI I

11:25 am

ADAS

Learning-Based Acceleration Prediction for Real-Time Model Predictive Motion Cueing

Keno Pape
(Paderborn University, Germany)

MALENA, Kevin; TIMMERMANN, Julia; TRÄCHTLER, Ansgar

ASAM QSQ: Quantifying Simulation Quality for Credible Virtual Validation

Diego SÁNCHEZ LÁZARO
(ASAM e.V, Germany)

SHAH, Yash

11:50 am

Comparison of Cost Functions for Automatic Motion Cueing Algorithm Parametrisation (Short)

SCHLUETER, Marco
(ProCue Ltd, London, UK)

HOLZAPFEL, Christian; Craig Brown

From Concept to Validation: Mastering Scene and Scenario Fidelity with the RoadRunner Product Family (Short)

Simone Haemmerle
(MathWorks, Germany)

HAFEMANN, Philipp

12:05 am

Effects of motion cueing and adaptive procedure on acceleration JND estimation (Short)

Erik Gustaf Lilljebjörn
(Swedish National Road and Transport Research Institute, Sweden);

KHARRAZI, Sogol; ÅSLUND, Jan

12:15 am

Test Management Process within SCANeR and the 3DEXPERIENCE Platform (Short)

Franck Corbier
(Dassault Systèmes, France)

NLOEMBE, Sandrine; GROS, Reine

12:20 am

Motion Cueing & Control & AI I

Acceptance of Adaptive Cruise Control on a Dynamic Driving Simulator: the Role of Tilt Coordination (Short)

Gobbi, Massimiliano
(Politecnico di Milano, Italy);

Carrera, Xabier; Cattaneo, Paolo; Comolli, Francesco; Mastinu, Giampiero; Torm, Roger

cont.

ADAS

Test Management Process within SCANeR and the 3DEXPERIENCE Platform (Short)

Franck Corbier
(Dassault Systèmes, France)

NLOEMBE, Sandrine; GROS, Reine

12:35 am

Lunch
2nd floor

2:00 pm

Industrial Keynotes
Antipolis Auditorium
Chairman : Andras Kemeny

"The Role of High Frequency Content in Driving Simulators"

Will Snyder
(Commercial Manager - Dynisma, United Kingdom)

"Rethinking Virtual Tire Data Management"

Gerald Hofmann
(CEO - cosin scientific software, Germany)

"From Validation Factories to Mobility Digital Twins: The Next Generation of Driving Simulation"

Thomas Nguyen
(Chief of Software and Products Officer - AVSimulation, France)

3:00 pm

Industrial Pitches

Antipolis Auditorium

Chairman : Florent Colombet

**Where Virtual Meets Reality –
The Next Generation of Driving Simulators**

Stefan Vorderobermeier
Business Development Manager, (Ansible Motion, United Kingdom)

Beyond Motion: From Full-Spectrum Simulation to Smart Testing

Gabriele Ferrarotti
Head of Marketing – Simulation, (VI-grade / HBK,Italy)

The Future of Driving Simulation Isn't Hardware. It's Partnership.

Simon Holloway
Commercial Director, Dynisma (United Kingdom)

**Driving the Future of Automotive Development:
Continuity, Simulation & Generative AI**

Farouk El Farji
Account Manager, IPG Automotive (France)

LED Display – The end of the projection era ?

Christoph Bode
CTO/Owner, Project: syntropy (Germany)

3:00 pm

Industrial Pitches

Antipolis Auditorium

The Performance Ceiling of your Simulator is Higher than you Think

Craig Brown
Director, ProCue Ltd (United Kingdom)

Automating the generation of simulation-ready maps and 3D environments for future AV validation

Florian Albert
CEO/Cofounder (AVES Reality, Germany)

Solution Study: HD Maps to 3D Simulation Environments for Virtual Validation, Digital Twins, and Safety Evidence

Luca Gasparro
CEO (AnteMotion, Italy)

From Real-World Contexts to Virtual Validation: DeCoDe Context & Demand Library for HMI Testing and AI Training

Gong Zaiyan
CEO (AMMI Intelligent Technologies ,China)

Precision In, Confidence Out: High-Precision Data as the Foundation for Simulation

Jörn Stieger
Sales Manager (3D Mapping Solution, Germany)

The Missing Link in Driving Simulation: The Inner Ear

Hervé Pochat
CEO (Neural Balance Innovation, France)

3:50 pm **Break**

4:30 pm

Scientific Paper Session

Antipolis Auditorium

Perception & Human Factors II

Chairman : Jens Heacker

In-car occupant state monitoring using RGB- and IR-images – carsickness as an example

Jelte E. Bos
(TNO, Netherlands)

LOUVENBERG, Susanne; SOUMAN, Jan L.

Product Solution Session

Fitzgerald Room

HiL DiL Simulation design

Chairman : Omar Ahmad

Extending a Modular Simulation Framework to Support Immersive Virtual Reality for Human-in-the-Loop Driving Studies

Peter Baker
(University of Warwick, United Kingdom)

MITCHELL, Joseph; CHODOWIEC, Emil; ZHANG, Xizhe; KHASTGIR, Siddartha; JENNINGS, Paul

4:55 pm

How We Roll: Validating Cycling Simulation Against Real-Life Riding

My Weidel
(Swedish National Road and Transport Research Institute, Sweden)

Ochel, Lennart; Sliacan, Jakub; Kircher, Katja

Development Environment for the Validation of Steer-by-Wire Systems

Guillaume Miller
(IPG Automotive France SARL, France)

Ahlert, Alexander; Thomas Karasiewicz;- Zur Heiden, Martin; Schmidt, Philipp; Kemper, Henning

Perception & Human Factors II

5:20 pm

HiL DiL Simulation design

Simulation-Based Human-in-the-Loop Assessment of Shifting Comfort in Two Speed Electric Vehicles

Omar Fahmy
(Institute for Mechatronical Systems, Technical University Darmstadt, Germany)

Kaskaya, Safa; Rinderknecht, Stephan

A Distributed Driving Simulation Framework utilizing Data Distribution Service

Christian Bauer
(University of Iowa, United States of America)

Schwarz, Chris

5:45 pm

Usability of a mixed reality head mounted display in a static driving simulator (Short)

Florent Colombet
(Renault, France)

MORGAND, Eva; MIGNOTTE, Nicolas; POSSELT, Javier

A HiL-Driven Brake Pedal Feedback Architecture for Driver-in-the-Loop Simulation (Short)

Raphael Groß
(Munich University of Applied Sciences, Germany)

Tworek, Anton; Riegert, Bernhard; Pfeffer, Peter E.

6:00 pm **Closing**

8:00 pm **Cocktail Party**

8:00 am

Registration & Coffee

2nd floor

9:05 am

Keynote

Antipolis Auditorium

"OpenUSD as the Common Language for Driving Simulation"

Nicolas Dalmasso
(Chief Technologist, Synopsys, USA)

9:35 am

Scientific Paper Session

Antipolis Auditorium

Virtual Reality for Driving Simulation

Chairman : Jonas Jansson

Assessing the Sensitivity of a VR Driving Simulator to Single-Day Highway Work Zones

Rosenberger Manfred
(Virtual Vehicle Research, Austria)

Paolo Pretto; PRIOR, Manuela; JUKIC, Mateo; GSELLMANN, Inge; MUIK, Thorsten; ROSENBERGER, Manfred; HAGER, Christina; MALETZKY, Alexander

Product Solution Session

Fitzgerald Room

Sensing and Perception in Driving Simulation

Chairwoman : Luz Amanda Garcias Galeano

Active Infrared with SE-RAY-IR – SCANeR Studio

Florian Faucher
(OKTAL-SE, France)

BOUDET, Antoine; NGUYEN, Thomas

10:00 am

Virtual Reality for Driving Simulation

Expectation-Driven Differences in Pedestrian Gap Acceptance toward Automated Vehicles (Short)

Melina Bergen
(German Aerospace Center (DLR), Germany)

Temme, Gerald;
Einhäuser-Treyer, Wolfgang;
Fischer, Martin

Sensing and Perception in Diving Simulation

Human Vision Driven Standard for Automotive Illuminated Surfaces (Short)

Victor Loya
(Ansys (part of Synopsys), United States of America)

10:15 am

Using Mixed Reality for Safety-Critical Testing in Railway Systems (Short)

Raphael Kling
(Karlsruhe Institute of Technology, Germany)

WILD, Manuel; WIESCHOLLEK, Marvin;
CICHON, Martin

Radar sensor simulation validation (Short)

Florian Faucher
(OKTAL-SE, France)

SERVEL, Alain

10:30 am

Break
2nd floor

11:00 am

Scientific Paper Session

Antipolis Auditorium

Motion Cueing & Control & AI II

Chairman : Gerd Baumann

Physics-Informed Neural Network-based Motion Cueing Algorithm

Robert Jacumet
(BMW AG, Germany)

DUELL, Simon; WAGNER, Sebastian; SCHWIENBACHER, Markus; LEIBOLD, Marion

Scientific Paper Session

Fitzgerald Room

Scenario Modeling and Authoring Tools

Chairman : Stéphane Espié

A Unified Framework for Scenario Coverage Estimation and Representative Selection in Simulation-Based Testing of Automated Vehicles

Anasse Essalih
(Vedecom, France)

ARAB, Abdel-Hakim; DURVILLE, Laurent; RAHAL, Mohamed-Cherif; LEBBAH, Mustapha; KHERJI, Walid; HADJ SELEM, Fouad

11:25 am

Enhancing Longitudinal Motion Cueing via AI-Based Driver Behavior Prediction

Zhou Fang
(Renault, France)

DE-OLIVEIRA, Fabien; QIU, Dongcheng; SOMMERVOGEL, Matthieu; COLOMBET, Florent; REGNIER, Stéphane

A Framework for Describing and Controlling Surrounding Traffic in Driving Simulator

Sven Tarlowski
(ika RWTH Aachen, Germany)

Legran, Philipp; Eckstein, Lutz

11:50 am

Evaluating Data-Driven Architectures for High-Fidelity Modeling of Driving Simulator Motion (Short)

Philipp Legran
(RWTH Aachen University, Germany)

USS, Fabian; Eckstein, Lutz

Applying a Representativity-Based Model Selection Framework to an Industrial ADAS Use Case (Short)

Yara Hallak
(Renault Group, TCR, Guyancourt, France)

Saab, Layal; Blouin, Dominique; Pautet, Laurent; Laborie, Baptiste

12:05 am

Lunch
2nd floor

2:00 pm

Automobile OEM Keynote
Antipolis Auditorium

“Engineering Emotion: Driving Simulation for Efficient and Flexible Virtual-Driven Development at Hyundai Motor Group“

Alessandro Salgarello (Chassis Advanced Engineer at Hyundai, Europe)
& Pilyoung Jeong (Senior Research Engineer at Hyundai, Korea)

2:20 pm

“The convergence of XR and driving simulation for customer-centric vehicle Design“

Stéphane Régnier (Expert Leader Immersive Simulation and Virtual Reality at Renault, France)

2:40 pm

“Data Quality in Multisensor Integration for Physical AI (Lessons from Automotive and Real-World Data Applications)“

Péter Tamás Kovács (Senior Vice President of aiData, aiMotive – a Stellantis company)
Frida Kóbor (Product Manager of aiData, aiMotive – a Stellantis company)

3:00 pm

Hybrid Scientific Paper/Product Solution Session

Antipolis Auditorium

Simulation design

Chairman : Martin Fischer

CycloCARLA: Design, Implementation, and Evaluation of a High-Fidelity Bicycle Simulator (Short)

Patrick Rebling
(Karlsruhe University of Applied Sciences, Germany)

RAUCH, Yannick; SANDER, Nico; NENNINGER, Philipp; KRIESTEN, Reiner

Hybrid Scientific Paper/Product Solution Session

Fitzgerald Room

AI & Machine learning for Scenario generation

Chairman : Stéphane Regnier

Open-Source Scenes and Scenarios for various Intelligent Transportation Systems Applications (Short)

Kevin Malena
(Paderborn University, Germany)

Rizk, Abdelmawla; Fittkau, Niklas; Gausemeier, Sandra; Trächtler, Ansgar

3:15 pm

Simulation design

Creating OpenDRIVE maps for 3D models using the ODRoNeS plugin for Blender

Albert Solernou
(University of Leeds, United Kingdom)

Garcia de Pedro, Jorge; Chao, Hsuan

AI & Machine learning for Scenario generation

AI-based simulation scenario generation from the ADScene complex scenarios

Sofiane Sadat
(Renault, France)

MOHELLEBI, Hakim; Sentouh, Chouki; VAILLANT, Eric; ARNOUX, Emmanuel; REGNIER, Stephane; Popieul, Jean-Christophe

3:40 pm

Simulation design

A Low-Cost Driving Simulator Platform for Integrated Vehicle Comparison, HIL testing and Public Engagement (Short)

Stefan Haehnlein
(Offenburg University of Applied Sciences, Germany)

FRUEH, Judith; RONECKER, Mirko; KLOEFFER, Christian

AI & Machine learning for Scenario generation

AI-driven generation of standards-compliant scenarios for requirements and ODDs (Short)

Stephen Lernout
(Deontic, Belgium)

3:55 pm

Closing
Antipolis Auditorium

4:00 pm

End

Absolute Accuracy Validation of a Perpendicular Distance Measurement Method in Unity3D: Implications for Virtual Reality Road Safety Studies

VAN DER STELT, Machiel (University of Western Australia, Australia); Braunl, Thomas; Roberts, Paul

Acoustic measures to increase immersion in static driving simulators

DÜSELDER, Arne (fka GmbH, Germany); DUTE, Marius

Designing a Balanced Order Driving Simulator Study with OpenSCENARIO

ANDERSSON, Anders (Swedish National Road and Transport Research Institute, Sweden)

Improving Motion Cueing with High Shelf Filters

Brown, Craig (ProCue Ltd, London, United Kingdom); Smith, Edward; Garrett, Nikhil; Williams, Chris

Fatigue-Inducing Scenario Design for Truck-Driving Simulation: From Evidence to Implementation

Fonseca, Tiago (CITTA, Faculdade de Engenharia, Universidade do Porto, Portugal); Costa Botelho, Telmo; Pedro Duarte, Sérgio; Lobo, António; Ferreira, Sara

Assessing Communication Behaviors between Excavator Operators, Human Workers and Assistance Systems on a Virtual Construction Site

REINHARD, René (Fraunhofer Institute for Industrial Mathematics ITWM, Germany); HEKELE, Franziska; SCHNEIDER, Jonathan; NICOLAI, Tim; EMMERICH, Sebastian; BURGER, Michael

Virtual Reality Driving Simulator for Education – Form Factor, Cybersickness and Perception

Loeb, Helen (Jitsik, United States of America);
Smagulova, Ayagoz; Rosenberg, Matan; De La Pena, Eduardo;
Sniegs, Oskars

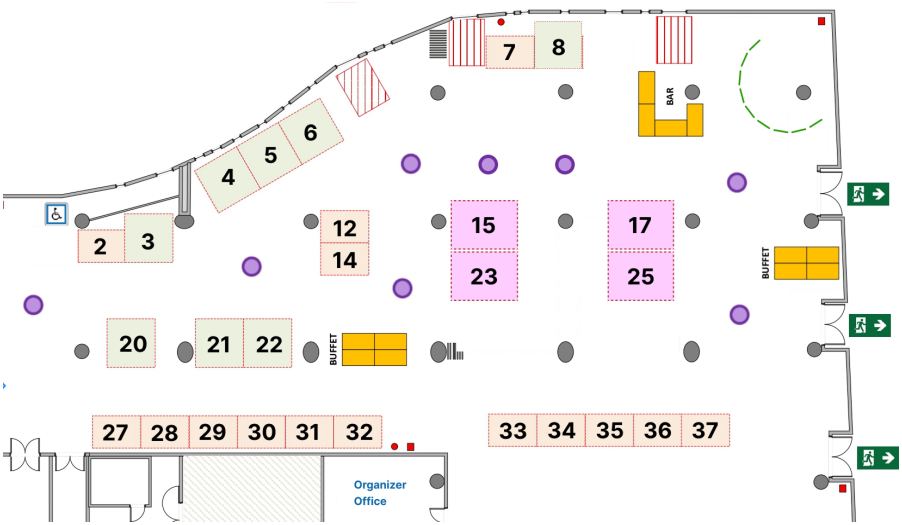
An Empirical UDP Network Assessment of Real-Time Latency and Data Integrity for a Distributed Heterogeneous Simulation Setup

VAN DER STELT, Machiel (University of Western Australia, Australia);
Braunl, Thomas;
Roberts, Paul

Floor Plan

DSC Europe 2026 XR Exhibition FloorPlan

Espace Gould



6m² Booth

9m² Booth

12m² Booth

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Attendee Bar Table

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Platinum Sponsor

AVSIMULATION

AVSimulation is a leading provider of simulation solutions for the automotive and mobility industry.

With SCANeR™, our comprehensive and modular platform, engineers can design, test, and validate ADAS, autonomous driving systems, and human factors studies in highly realistic virtual environments.

Combined with a complete range of driving simulators and tailored engineering services, AVSimulation helps accelerate development, reduce costs, and enhance safety and efficiency across the entire V-cycle.

Through innovation, realism, and expertise, we support OEMs, Tier-1 suppliers, researchers, and universities worldwide in shaping the future of mobility..

www.avsimulation.fr

Diamond Sponsor

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www.renaultgroup.com

Premium Sponsor

cosin scientific software

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.

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www.cosin.eu

DYNISMA®

Premium Sponsor

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With simulation now central to modern vehicle development, Dynisma is redefining what's possible – helping the world's most forward-thinking automotive brands deliver better vehicles, faster.

www.dynisma.com

Gold Sponsor

MathWorks is the leading developer of mathematical computing software. MATLAB, the language of engineers and scientists, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a block diagram environment for simulation and Model-Based Design of multidomain and embedded engineering systems. Engineers and scientists worldwide rely on these products to accelerate the pace of discovery, innovation, and development in automotive, aerospace, communications, electronics, industrial automation, and other industries. MATLAB and Simulink are fundamental teaching and research tools in the world's top universities and learning institutions. Founded in 1984, MathWorks employs more than 6,000 people in 34 offices around the world, with headquarters in Natick, Massachusetts, USA.

www.mathworks.com

Silver Sponsor

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

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

With the cooperation and support of

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

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

7

3D Mapping Solutions, based in Holzkirchen, specialized in high-precision kinematic surveying of road networks, racetracks and proving-grounds and is global leader in this automotive field. The highly accurate data is used to create digital twins of the road corridor, in particular HD reference maps, high-resolution road surface models and 3D environment models. The digital twins are used in a large variety of automotive applications, especially for development, testing and validation of ADAS functions in simulation, driving simulators and the autonomous vehicle itself. 3D Mapping has established a worldwide database for simulation, containing a large variety of representative road networks, proving grounds and race tracks.

www.3d-mapping.de

3

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 aims. 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

ANTYCIP

15

Antycip is a leading European provider of advanced visualisation and simulation solutions, helping organisations design, build and optimise immersive visualisation environments. Working with world-leading technology partners, Antycip combines high-performance image generation, visual display technologies, motion systems and simulation software to deliver high-fidelity environments for research, development and training.

Within the automotive sector, Antycip supports OEMs, industry partners, research centres and universities in the design, integration and deployment of advanced driving simulation solutions, from compact research platforms to large-scale immersive facilities. Its expertise spans system design and integration, projection and LED display technologies, image generation, mixed reality and human factors applications.

Backed by decades of experience in simulation and visualisation, Antycip enables customers to create realistic, reliable and scalable environments that accelerate research, improve system evaluation and deliver highly immersive driver experiences.

steantycip.com

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www.asam.net

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AVES Reality generates semantic 3D maps from geospatial data to make simulation of physical AI more efficient and globally scalable. Their software platform AVES Launcher turns any place on earth into a scalable 3D digital twin world including HD-roadmaps. AVES' 3D maps are ready for simulation, testing, and virtual V&V as they integrate with various market leading simulation tool providers.

www.avesreality.com

AVSIMULATION

23

AVSimulation is shaping the future of mobility through advanced simulation technologies. Founded by SOGECLAIR and Renault Group, and strengthened by Dassault Systèmes and UTAC, we combine world-class expertise to deliver innovative solutions for the automotive industry.

At the core of our offering is SCANeR, our powerful simulation software, enabling engineers to design, test, and validate vehicle systems in realistic, scalable environments. Complementing this, our high-fidelity driving simulators provide immersive, human-centric testing for ADAS, autonomous driving, and vehicle dynamics.
Together, these solutions help tackle key industry challenges such as safety, performance, and sustainability, faster and more efficiently than ever.
At AVSimulation, we don't just follow innovation : we accelerate it. Visit our stand to experience how simulation is redefining the way vehicles are developed.

www.avsimulation.fr

BARCO

15

Barco is a global technology company that specializes in visualization, collaboration, and networking technology. The company develops advanced visualization solutions for simulation and training environments, including ultra-low-latency DvLED and projection systems designed to deliver highly realistic and immersive experiences. Barco's integrated display and control solutions power driving simulators worldwide, enabling accurate training, testing, and validation for automotive manufacturers, research institutions, and mobility innovators.

www.barco.com

4

cosin scientific software

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www.cosin.eu

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DASSAULT SYSTEMES

For the past 40+ years, Dassault Systèmes has touched the world through breakthroughs that have impacted humankind. From winning the Nobel Prize for Chemistry with our 3D protein structure model, to creating the first-ever 3D living heart, creating virtual aircrafts and cities, and now providing the healthcare industry with virtual twin experiences of the human body, there's no slowing down.

In a nutshell, we're providing human-centric experiences. Through software solutions that allow customers to create innovative new products and services with virtual experiences, we challenge and encourage customers to imagine a world that address the major challenges facing the world today. As our technological breakthroughs continue and we shift our focus from things to life, our beliefs, and goals have remained steadfast. They are:

• Purpose: To provide business & people with 3DEXPERIENCE universes to imagine sustainable innovations capable of harmonizing product, nature and life. • Belief: Virtual worlds extend and improve the Real world.

• Goal: To empower innovators, manufacturers, local authorities, students, teachers and citizens to invent, design, simulate, adjust, produce and personalize products, processes or operations to drive social progress.

• Moto: The Only Progress is Human.

We're a company committed to and based on science. We believe the virtual world can help improve the real world. Because the virtual world lets anyone simulate and evaluate the impact of their actions before making them real, innovative minds are empowered to think big, limited only by their imagination. Environmental impacts can be considered from the very start.

www.3ds.com

DEONTIC

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Deontic builds AI agents for ADAS and autonomous driving validation. The company helps OEMs, Tier 1 suppliers, simulation teams, and homologation engineers convert natural-language requirements, Operational Design Domain definitions, and regulatory constraints into executable, traceable OpenSCENARIO and OpenDRIVE assets.

As autonomous systems scale across vehicle platforms, regions, and software releases, validation teams face growing complexity: changing regulations, expanding ODDs, drifting requirements, and exploding scenario libraries. Deontic addresses this bottleneck by automating scenario engineering and supporting continuous homologation workflows. Its agentic platform can generate base scenarios, expand them through parameter sweeps, link them back to requirements, and prepare evidence for simulation-based validation.

Deontic is designed to fit into existing engineering environments through an API, WebUI, and agent integrations such as VS Code and Claude. It acts as a validation intelligence layer between requirements systems, ODD definitions, simulation environments, and compliance workflows.

By reducing manual scenario authoring from hours to minutes, Deontic enables faster coverage generation, lower validation cost, and more auditable safety evidence for software-defined and end-to-end autonomy programs. The company's focus is on making autonomy validation scalable, traceable, and regulator-ready

www.deontic.ai

dSPACE

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dSPACE is one of the world's leading providers of simulation and validation solutions for the development of electric, autonomous, and connected vehicles.

The company's range of end-to-end solutions is used, in particular, by automakers and their suppliers to test software and hardware components well before new models are approved for use on the road. dSPACE is not only a partner of choice for vehicle development, but also for its expertise, which engineers in the aerospace and industrial automation sectors rely on. Our portfolio ranges from providing comprehensive simulation and validation solutions to engineering and consulting services, as well as training and support. With more than 2,500 employees worldwide, dSPACE is headquartered in Paderborn, Germany, operates three project centers in Germany, and provides close support to its customers through local subsidiaries in the United States, the United Kingdom, France, Japan, China, Croatia, Korea, India, and Sweden.

www.dspace.com

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www.dynisma.com

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www.institutimage.ensam.eu

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SIM-ONE (EDC Labs) is proud to serve as an official reseller of Pimax VR products and Sigma Integrale's advanced dynamic chassis solutions and SDK.
We specialize in high-performance virtual reality headsets from Pimax, including the latest-generation Dream series—such as the Dream Air and Dream SE models. These flagship headsets deliver exceptional resolution, ultra-wide field of view, eye-tracking capabilities, and lightweight designs that set new standards for immersion in sim racing and professional simulation environments. Alongside this, we offer Sigma Integrale's cutting-edge motion platforms from the DK family, including the DK2, DK2+, and DK6+ systems. Engineered for precise, low-latency haptic feedback and authentic dynamic movement, these platforms excel in both high-fidelity research applications and commercial setups. Beyond distribution, SIM-ONE (EDC Labs) provides complete integration services for these technologies. Our expertise covers research-grade simulators—where accuracy, repeatability, and custom configurations are essential—as well as more accessible consumer and commercial applications, including entertainment centers, training systems, and enthusiast rigs.
During DSC 2026 Europe XR, we will showcase a fully integrated simulator supporting both the Pimax Dream Air and Dream SE headsets together with the Sigma Integrale DK2 motion system.
Whether you require turnkey solutions, tailored motion-VR combinations featuring the latest Pimax Dream headsets and Sigma DK motion systems, or dedicated technical support, SIM-ONE (EDC Labs) combines premium hardware with specialized integration know-how to deliver truly immersive, high-fidelity experiences.

sim-one.co

34

With its GenAI agent, Wokie coupled with BOWL Studio, Epicnpoc brings a game changer tool for UI generation, system simulation and specifications.
Make your intentions becoming your reality and validate your ideas in a very short loop cycle: instant prototyping has arrived.
You bring your ideas, we generate a reference functional prototype with its SYSML specifications.
Curious and skeptical, come and challenge Wokie with your best prompt!
>From intent to reality, faster than ever!

epicnpoc.com

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Etecmo is a technology company specializing in Driver-in-the-Loop (DIL) simulation.

Etecmo's main software product is the Simulation Suite, an integrated software solution for DIL simulation.
It has been developed with a holistic approach, aiming to become a state-of-the-art reference in simulation software, providing full control of the DIL simulation environment, from static simulators to the most advanced motion platforms.

The software supports advanced professional vehicle models such as Canopy or AVL VSM, integrates with tools already in engineering workflows, including Simulink®, Dymola, and other FMI/FMU-based models and provides real-time analysis and data acquisition tools.

It simplifies the operation of complex simulation architectures while enabling smaller teams with limited systems and engineering capacity to make professional use of simulation.

Its key software components are:
• Universo® — Real-time ray tracing–based rendering engine.
• Interact® — High-resolution tyre-terrain model with up to 1,000 contact points per tyre.
• Physics Host — Co-simulation master, enabling the use of different vehicle models (such as Canopy or AVL VSM) and tyre models.
• Control Panel — Single, unified UI for configuring and controlling all simulation operations, data acquisition, and analysis.

At Etecmo, we are committed to innovation and collaboration, helping our customers accelerate development, improve safety, and enhance user experience through state-of-the-art simulation technologies. By combining engineering excellence with flexible, customer-focused solutions, we enable organizations to transform complex mobility challenges into practical, high-performance simulation systems.

etecmo.es

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As a global leader in virtual test driving technology, IPG Automotive develops innovative simulation solutions for vehicle development. Designed for seamless use, the software and hardware products can be applied throughout the entire development process, from proof-of-concept to validation and release. The company's virtual prototyping technology facilitates the automotive systems engineering approach, allowing users to develop, test and validate new systems in a virtual whole vehicle.
IPG Automotive is an expert in the field of virtual development methods for the application areas of Autonomous Vehicles, ADAS, Powertrain, and Vehicle Dynamics, committed to providing support to master the growing complexity in these domains. Together with its international clients and partners, the company is pioneering simulation technology that is increasing the efficiency of development processes.

www.ipg-automotive.com

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MathWorks is the leading developer of mathematical computing software. MATLAB, the language of engineers and scientists, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a block diagram environment for simulation and Model-Based Design of multidomain and embedded engineering systems. Engineers and scientists worldwide rely on these products to accelerate the pace of discovery, innovation, and development in automotive, aerospace, communications, electronics, industrial automation, and other industries. MATLAB and Simulink are fundamental teaching and research tools in the world's top universities and learning institutions. Founded in 1984, MathWorks employs more than 6,000 people in 34 offices around the world, with headquarters in Natick, Massachusetts, USA.

www.mathworks.com

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MORAI is a leading provider of autonomous driving simulation and digital twin solutions based in South Korea. The company develops simulation platforms for the development, testing, and validation of autonomous driving and ADAS technologies, helping accelerate safe and reliable mobility innovation.

www.morai.ai

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Neural Balance Innovation (NBI) is an innovative Deeptech start-up. Our primary goal is to develop and deploy our STIMBOX, a novel sensory stimulation device that specifically targets the balance organ in a non-invasive manner. This project is based on the combined expertise of the best French specialists in neuroscience of balance, as well as cutting-edge academic research expertise in sensor technology and signal processing. Through this new sensory approach, we can effectively act on the balance and motor systems, as well as sensory synchronization. We are currently developing two devices:
The first aims to reduce cybersickness and enhance the immersive experience in Virtual Reality by artificially stimulating the inner ear, thereby providing sensations of movement. This device has a wide range of potential applications, from virtual reality entertainment to applications such as pilot training to strengthen their skills and improve their performance.
The second aims to reduce motion sickness and provide gradual desensitization through a dedicated application.

nbi.fr

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OKTAL Synthetic Environment (OKTAL-SE) was founded in 2001 by its CEO, Mr. Jean LATGER, and is now part of the SOGECLAIR Group, located in Toulouse-France. As an agile company, OKTAL-SE combines a responsive and customer-focused approach with the expertise needed to address complex technical challenges. OKTAL-SE is also a sister company of AV Simulation and has built a close partnership with it to support the automotive sector.

For over fifteen years, OKTAL-SE has been a recognized provider of multi-sensor simulation solution through SE-WORKBENCH, its comprehensive software suite. The company's expertise covers large-scale synthetic 3D scene creation, real-time image generation, and physically based rendering for electro-optical applications, including visible and infrared imaging systems, as well as radio-frequency applications such as radar and GNSS.

Since its foundation, OKTAL-SE has developed long-term relationships with national defence agencies and leading companies in the aerospace and defence industry. Its engineering and simulation tools dedicated to electro-optical and radio-frequency systems have demonstrated their validity and efficiency across major industrial programs.

SE-WORKBENCH is now used in more than fifteen countries as a cost-effective solution for the design, development, and qualification of embedded sensor systems.

www.oktal-se.fr

PROCUE

SIMULATOR MOTION WORKFLOW

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How do you WIN BIG with motion simulators WITHOUT massive capital investment? What separates ELITE simulator programs from the rest?

You'd be forgiven for thinking that, so long as your motion simulator has enough performance in terms bandwidth, travel, latency, cross-talk and so forth, VALUE GENERATION should be easy. And the newer the simulator, the better… right?!

Well, maybe…

The reality of motion simulators is that they are robotic systems. Performance, therefore, may be impeded, or maximized, by their 'intelligence'. More specifically, its MOTION CUEING algorithm and its parameterization in day-to-day operations.

Do cueing very well, you will surely crush the competition. Do it badly and you could profoundly damage your race weekend or vehicle development program. And you need to do this consistently, week after week.

Chances are your cueing and its processes can be upgraded at a much lower cost than buying a brand-new simulator. Of course, your new simulator can be greatly enhanced also.

But getting the most out of simulators is difficult, even for seasoned operators. This is unavoidable due to their complexity, combined with the unyielding and oftentimes hurried demands of the automotive and motorsport industries.

Our ProCue software removes the shakedown 'guesswork', replacing it with a proven workflow, state-of-the-art optimization and more. It will unleash the full potential of your existing cueing IP. Or give you a starting point.

Dr Craig Brown, ProCue's inventor, has 15+ years of experience in the simulation, embedded and automotive industries. He was initiated into the simulator world at McLaren, developing their state-of-the-art motion simulator in partnership with MTS—a multidisciplinary project encompassing control, simulation, motion cueing, software development and running simulator sessions for elite racing drivers.

He continued to specialize in motion simulators at Toyota Gazoo Racing as a founding member of a new UK office based in Epsom, building the foundations for TGR-Haas Formula One partnership. He was responsible for developing a global portfolio of motion simulators—from North Carolina to the base of Mount Fuji, with applications including Nascar, Hypercar, GT3, light commercial and passenger vehicle development.

He now works independently with major OEM's, universities, simulator vendors and consultancies in the relentless pursuit of motion simulator excellence. He regularly publishes scholarly articles about motion cueing and has given talks at DSC, ASCS and Royal Aeronautical Society events.

ProCue is the software embodiment of all this experience. The tool he "wishes he had". Let's OUT-CUE THE COMPETITION.

www.procue.xyz

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project:syntropy

Project: syntropy (Magdeburg & Berlin/D, Gothenburg/SE, Shanghai/CN, Taiwan and Singapore) creates technologies and display solutions for professional Simulation- and Training Environments, interactive, immersive attractions and dome cinema as well as multimedia experiences.

https://www.project-syntropy.de

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rFpro

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

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sensodrive

Sensodrive Simulators. Perfect Simulations – Perfect Results. Sensodrive is a spin-off 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-of-the-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.

www.sensodrive.de

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

www.smarteye.se

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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

17, 25

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

VIS4ALL

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VIS4ALL AG develops innovative systems for collaborative 3D visualisation in industry, engineering, research, and education. Our solutions enable two users to experience the same virtual scene simultaneously from individually correct viewpoints, creating a natural and highly effective way to review, discuss, and validate complex 3D content.

Our flagship product, Co4Two, is a turnkey collaborative 3D visualisation system that combines immersive multi-user visualisation with exceptional simplicity, mobility, and cost-effectiveness. For organizations operating existing PowerWall or CAVE installations, Co4CAVE provides a straightforward upgrade path, adding dual-viewpoint capability without replacing existing infrastructure.

VIS4ALL systems integrate seamlessly with leading industrial visualisation software and support applications such as engineering design reviews, visual simulation, BIM and architecture, scientific visualisation, education and training, and collaborative product presentations.

VIS4ALL also develops ultra-high-speed active 3D shutter glasses for professional visualisation systems. They are an integral part of Co4Two and Co4CAVE and are also available as stand-alone products for demanding 3D applications.

vis4all.ch

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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PROCUE SIMULATOR MOTION WORKFLOW

DYNISMA

MTS

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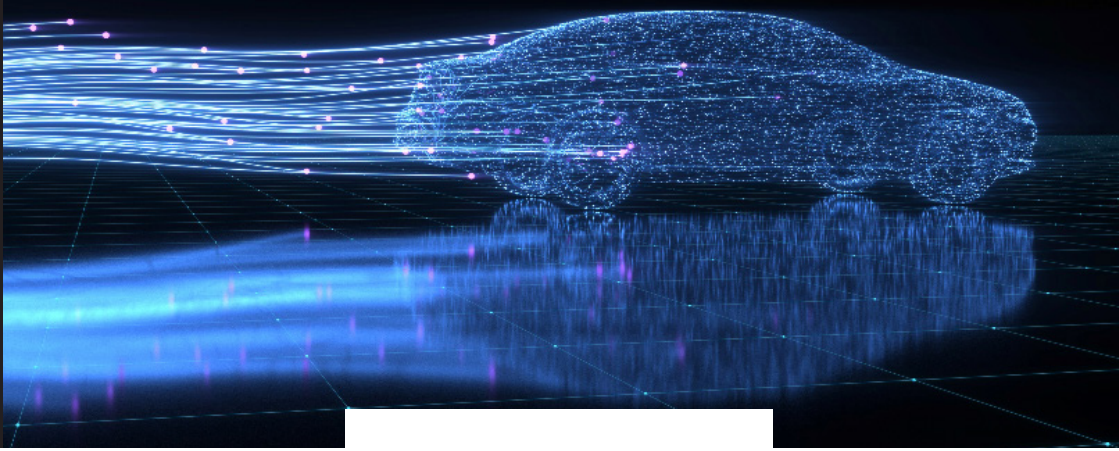
Join the association, register now!

driving-simulation.org

DSC 2026 EUROPE XR

Driving Simulation & eXtended Reality Conference & Exhibition



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SIA Société des Ingénieurs de l'Automobile

Driving Simulation Association

driving-simulation.org