ELIV by VDI

2026

PROGRAM

October 14–15, 2026
Baden-Baden, Germany

AI | Architecture | Electronics Technologies & Semiconductors | India | Security | Software for the SDV

VDI

ELIV by VDI

ELECTRONICS IN VEHICLES
WORLD'S LARGEST CONGRESS FOR AUTOMOTIVE ELECTRONICS, SOFTWARE AND APPLICATIONS

Highlights

- **Automotive Trend Sessions with Panel Discussions on Automotive AI and the Indian Market**
- **Autonomous Driving Challenge**
- **Extensive Exhibition**
- **Interactive Communication Points**
- **Lightning Talks**
- **Meet with the Speakers**
- **Night of Electronics**
- **Parallel Conference Mobile Machines Electronics**
- **Start-up Area and Special Start-up Program**

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eliv-congress.com

Dear Sir or Madam,

We are pleased to present the program for **ELIV 2026, the international congress for automotive electronics, software, and applications.** Selected from nearly 200 high-caliber submissions, this year's program is enhanced by several new features, making ELIV 2026 one of the strongest editions in the event's history.

A major focus is the growing importance of India as one of the automotive industry's most dynamic markets. With strong technological momentum and significant market potential, India will play a central role in Automotive Trend Sessions, technical presentations, panel discussions, and the exhibition area featuring local partners and startups.

Artificial Intelligence is another key topic, as it is fundamentally transforming vehicle development, architecture, and operation. A dedicated Automotive Trend Session, including a panel discussion and the presentation of an exclusive study, as well as numerous technical contributions, will address the latest developments, applications, and challenges in AI for automotive electronics. Quantum Machine Learning will highlight the next technological frontier.

Further topics include software for the Software-Defined Vehicle (SDV), with sessions on platforms, data-driven development, Open Source, middleware, security, and disruptive tools and methods. Additional sessions will focus on architecture, hardware such as semiconductors, and the transformation of working methods. Application-oriented topics include ADAS & Automated Driving and Cockpit/Customer Experience.

The program is complemented by strategic keynotes, popular Lightning Talks, and the parallel congress on electrical and electronic systems in mobile machines.

ELIV returns to Baden-Baden, its original birthplace and a leading region for automotive and digital innovation. Participants can look forward to newly modernized facilities, a diverse supporting program, and a special evening event.

Yours sincerely,
The Program Committee of VDI ELIV 2026

Including up-to-date contributions, among others, from:

3DSE Management Consultants · Ampere · AUMOVIO · bertrandt · BMW · btv technologies · Capgemini · carbyte · CLAAS · Determion · dSPACE · Elektrobit · ETAS · fev.io · five · Hochschule der Medien · IBM · Infineon · IPG · KPIT · Automotive Grade Linux · L&T Technology Services · MAGNA · Mercedes-Benz · MHP A Porsche Company · Microsoft · msg · Neusoft · Porsche Consulting · QORIX · Qualcomm · Quest global · Red Hat · Bosch Invented for life · RT-RK · socionext · Solid Sands · ST · SystemWeaver · TASKING · TCS Tata Consultancy Services · TUM · MathWorks · trustmotion part of NXP · T-Systems · TWT · Upstream · USE BLOCKS · VicOne · Volkswagen · VVDN Technologies · zvei electrifying ideas

TOP-SPEAKERS

Dr. Christoph Grote

Senior Vice President AI & Innovation, BMW Group, Munich

Kishor Patil

Co-Founder, MD & CEO at KPIT | Vice Chair, NASSCOM | Chairman, Advisory Board at QORIX, Pune, India

Dr.-Ing. Martin von Hoyningen-Huene

Member of CLAAS Group Executive Board, CLAAS KGaA mbH, Harsewinkel

Thomas Böhm

Senior Vice President Automotive Microcontroller, Infineon Technologies, Munich

Katrin Matthes

Lead Software Technologist, R&D, Ampere, Biot, France

Dr. Angela Wang

Senior Vice President of Neusoft Corporation, Chairman & President of Neusoft Europe, Chairman of Neusoft America, Neusoft Corporation, Shenyang, China

Dr. Matthias Klauda

Executive Vice President Cross-Domain Computing Solutions, Robert Bosch GmbH, Leonberg

Andrej Levitin

Manager | Software Delivery Excellence, Porsche Consulting GmbH, Stuttgart

Martin Sesselmann, M. Sc.

Product Owner Energy Supply Architecture, Mercedes-Benz AG, Sindelfingen

Dipl.-Ing. Steffen Krause

Head of Software-Defined Vehicle Intelligent Industry Automotive, Capgemini Invent, Munich

Bora Ger

Global Lead Human-AI Advantage and Chief AI Strategist @ Global AI Lab, Capgemini Invent, Munich

Jörg Tischler

Head of Connected Mobility, T-Systems International, Düsseldorf

Michael Niklas-Höret

SW Architect SDV, ZVEI e. V. (hereby represented on behalf by AUMOVIO), Berlin

MAIN TOPICS

Automotive AI: Strategy, AI Developed Vehicle, AI driven ADAS

How Artificial Intelligence is transforming vehicles, development processes, and Advanced Driver Assistance Systems

India – Tech & Market

Insights into India’s rapidly growing technology and automotive market as well as global innovation opportunities

Software for the SDV – Platforms, Data Driven Development, Middleware & Tools

Modern software platforms and data-driven development approaches as the foundation of the Software-Defined Vehicle

Architecture: Powernet, Open Source for SDV

Future-ready E/E architectures, Powernet concepts, and Open Source approaches for the SDV ecosystem

Electronics Technologies & Semiconductors

New electronics technologies and semiconductor solutions enabling next-generation vehicle systems

Quantum – Future Computing

Exploring quantum computing technologies and their future potential for automotive and mobility applications

High Performance Computing

High-performance computing as a key enabler for simulation, AI applications and complex vehicle software

Security

Cybersecurity strategies and secure system architectures for connected and software-defined vehicles

Automated Driving – Simulation

Simulation technologies as a critical element for the development, testing, and validation of automated driving functions

Disruptive Methods & Tools

Innovative methods and next-generation tools accelerating transformation and development in the automotive industry

Customer Experience

Creating seamless digital experiences and personalized services for the mobility customers of tomorrow

Organizational Transformation

From software-defined organizations to AI governance: enabling companies to adapt structures, processes, and culture for the next era of automotive innovation

PROGRAM

1st Congress Day

WEDNESDAY, OCTOBER 14, 2026

07:30	Registration				
	AUDITORIUM				
08:45	Opening and Keynotes				
10:30	COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT				
	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM – MOBILE MACHINES
11:15	Automotive AI – Strategy	Software for the SDV – Platforms	AI-Driven ADAS	Customer Experience	Smart Components
12:45	LUNCH, EXHIBITION AND START-UP AREA VISIT				
14:15	Automotive Trend Session (ATS): India – Tech & Market I	Automotive AI – AI Developed Vehicle	Organizational Transformation	Electronics Technologies & Semiconductors	Automation and Autonomy
16:15	COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT				
16:45	Automotive Trend Session (ATS): India – Tech & Market II	Software for the SDV – Data Driven Development	Architecture – Powernet	Quantum – Future Computing	Software-Defined Machines
18:30	END OF THE FIRST CONGRESS DAY				
19:00	NIGHT OF ELECTRONICS				

PROGRAM

2nd Congress Day

THURSDAY, OCTOBER 15, 2026

	AUDITORIUM
08:30	Keynote

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM – MOBILE MACHINES
09:00	Automotive Trend Session (ATS): Automotive AI	Software for the SDV – Middleware & Tools	Architecture – Open Source for SDV	Disruptive Methods & Tools	Connectivity and Communication
11:00	COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT				
11:45	LIGHTNING TALKS: 10 INNOVATIVE THREE-MINUTE RAPID-FIRE PITCHES ON AUTOMOTIVE TOPICS				
12:15	Automotive AI – Ecosystems	High Performance Computing	Security	Automated Driving – Simulation	Electrification
13:45	LUNCH, EXHIBITION AND START-UP AREA VISIT				
15:00	KEYNOTES AND CONCLUSION – AUDITORIUM				
16:15	END OF THE CONGRESS				

1st Congress Day

WEDNESDAY, OCTOBER 14, 2026

07:30 **Registration**

AUDITORIUM

08:45 **Opening of the Congress, Current Market Situation & Hour of Topical Interest**

Dr. Rolf Zöller, CEO and Founder DigiTrans Consulting, former Porsche AG and Porsche Digital, Chairman of the Program Committee, and **Dr.-Ing. Carsten Hoff,** Chairman of the Program Committee Mobile Machines Electronics, CEO, dSPACE Group SE & Co, Paderborn

Keynotes

Moderation: Dr. Rolf Zöller, CEO and Founder DigiTrans Consulting, former Porsche AG and Porsche Digital, Chairman of the Program Committee

09:00 **The Cars Are the Proof. The SW-Factory Is the Story. How Scalable Architectures and AI Are Reshaping Automotive Development**

- Neue Klasse: Proving that a next-generation electronics architecture can scale across products, powertrains, and markets.
- From Software Factory to AI Factory: Scaling software engineering to turn innovation into industrial reality.
- Beyond the OEM: Building the industry-wide collaboration needed for AI-powered development.

Dr. Christoph Grote, Senior Vice President AI & Innovation, BMW Group, Munich

09:30 **Co-Creating the Future of Mobility: India and Europe in the Next Decade**

- Electrification, Software & AI Transforming Automotive Engineering
- India as a Hub for Integrated Product Development & Validation
- Scaling Next-Generation Mobility through India–Europe Collaboration

Kishor Patil, Co-Founder, MD & CEO at KPIT | Vice Chair, NASSCOM | Chairman, Advisory Board at QORIX, Pune, India

10:00 **The Future of Farming – From Automation to Full Autonomy**

- Challenges of farmers and modern agriculture
- Automation of working – how processes are automated
- Automation of driving – how machines become autonomous
- Outlook on the future of farming

Dr.-Ing. Martin von Hoyningen-Huene, Member of CLAAS Group Executive Board | EVP BU Tractors and Implements, SU Engineering (Group CTO), CLAAS KGaA mbH, Harsewinkel, Co-Authors: Christian Poschmann, MBA, Felix Giesker, M. Eng., all of CLAAS Selbstfahrende Erntemaschinen GmbH, Harsewinkel

10:30 **COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT**

PROGRAM – 1st CONGRESS DAY

AUDITORIUM

Automotive AI - Strategy

Moderation: Thomas Wambera, Apex.AI, Munich

11:15

IN SESSION KEYNOTE

The Great Leap Forward: Inspirations from China's „Scenario-Defined" Path to Rapid AI Implementation in Mobility

- „Scenario defines technology" approach pushes AI implementation in China market quickly into large-scale phase
- Build new competitive edge by scenario-defined AI implementation to redefine user experience
- Make AI the central nervous system of software development for more efficient scenario-based deep innovation
- Closer collaborations across different regional markets to accelerate the large-scale AI deployment

Dr. Angela Wang, Senior Vice President of Neusoft Corporation, Chairman & President of Neusoft Europe, Chairman of Neusoft America, Neusoft Corporation, Shenyang, China

11:45

From Automated Driving to Physical AI: What Robotics Can Learn from Automotive

- Physical AI: from rigid automation to adaptive, context-aware robots
- Transfer from automated driving: perception, sensor fusion, safety, V&V
- Simulation + data pipelines: scenario-based testing, digital twins, data quality

Dr. rer. nat. Ulrich Wurstbauer, Principal Solution Architect, R&D, Co-Author: Peter Fintl, both of Capgemini Engineering S.A.S., Munich

KONGRESSSAAL 2

Software for the SDV - Platforms

Moderation: Dipl.-Ing. Martin Schleicher, Consultant, Erlangen

IN SESSION KEYNOTE

Architecting Scalable and AI-Ready Vehicle Platforms

- Mastering dual transformation: reinventing ComNet and PowerNet architectures for software-defined vehicles
- Holistic, scalable framework: modular architectures from hardware to software, enabling scale and new business models
- Path to AI-ready vehicles: centralized compute, high data throughput, and robust power architecture
- Accelerating innovation: from concept to production via standardized middleware and advanced dev pipelines

Dr. Matthias Klauda, Executive Vice President Cross-Domain Computing Solutions, Co-Author: Dr. Zora Slavik, both of Robert Bosch GmbH, Leonberg

Right-Sizing the SDV Platform: Incremental Architectural Evolution under Cost Discipline

- Staged SDV transformation stabilizing interfaces, integration logic, and platform boundaries before introducing large-scale hardware centralization
- Constrained SDV Platform variants to defined classes, reducing complexity while enabling reuse across vehicle lines and domains
- A platform approach that separates applications from underlying mechatronic and hardware changes, allowing frequent upgrades without repeated system redesign
- Incremental migration from legacy E/E to zonal architectures

Dipl.-Ing. Sabine Megow, Head of Strategy Office, Strategy & Portfolio, Co-Author: Vivek Sannabhadti, both of Elektrobit Automotive GmbH, Erlangen

KONGRESSSAAL 1

AI-Driven ADAS

Moderation: Dr. Dirk Walliser, Walliser Advisory, Aichwald

From Assisted Driving to E2E Driving Systems: The Next Phase of AI Driven ADAS

- The industry is shifting from traditional, rule based ADAS features to unified AI native, end to end driving systems that learn from data and adapt across conditions
- New architectures integrate perception, prediction, and driving policy into a single deep learning stack, supported by safety guardrails and mixed criticality design to maintain compliance and reliability
- Realizing AI native ADAS requires high performance compute, scalable data pipelines, cloud based training, simulation, and OTA updates to enable continuous improvement throughout the vehicle lifecycle

Benjamin Spigner, Staff Product Manager, Product Management, Qualcomm Germany GmbH, Munich

Accelerating Vision-Language-Action Models for Autonomous Vehicles

- Vision-Language-Action (VLA) Models and Agentic AI
- NVIDIA Inference Context Memory Storage Platform
- Key-Value (KV) Cache Offloading for AI

Dipl.-Ing. Frank Kraemer, IBM Technology Systems Architect, IBM, Frankfurt/Main

KONGRESSSAAL 3

Customer Experience

Moderation: Maik Rohde, Volkswagen, Wolfsburg

From Smart Cockpit to Agentic Vehicle: AI-Native In-Vehicle Experiences

- The cockpit is shifting from reactive infotainment to agentic, AI native vehicles where multiple specialized AI agents understand intent, reason over context, and coordinate actions across the car
- A unified orchestration layer enables these agents to plan, act, and learn using multimodal inputs, while central, safety focused compute maintains mixed criticality separation and supports hybrid on device + cloud AI
- This unlocks goal oriented interaction, letting occupants express high level intents that drive coordinated actions across navigation, comfort, safety, media, and connected services—turning the car into an intelligent partner, not just a responsive device

Thomas Dannemann, Senior Director Product Marketing, Qualcomm Germany GmbH, Munich

Towards Human-Physical-AI Architecture: Semantic XR Interfaces for Bidirectional Interaction between Humans, Robots, and Vehicles

- Human-Physical AI Architecture
- Semantic Intent modeling
- Open, vendor-agnostic interface
- Human-centered transparency & control

Prof. Dr. Ansgar Gerlicher, Professor, Institute for Mobility and Digital Innovation, Co-Authors: Zack Walker, both of Stuttgart Media University, Christian Hackenbeck, Mercedes-Benz AG, Stuttgart

FORUM

Smart Components

Moderation: Dr.-Ing. Georg Kormann, John Deere Kaiserslautern

AI-Driven Real-Time Automation of Variable Rate Applications (VRA) Using Multispectral Camera System: Multi-Year Field Validation in Cotton

- Evaluation of an AI-enabled camera-based sensing system for real-time VRA in cotton
- Integration of multispectral imaging, environmental sensors, and onboard AI for crop vigor and biomass assessment
- Performance validation in commercial cotton fields vs. conventional practices
- Leveraging results to optimize inputs, reduce agrochemicals, and improve sustainability – without compromising yield or fiber quality

Nikolaos Georgiadis, M. Sc., Agronomy Lead, Research & Development, Co-Author: Dr. Christina Vogiatzi, Konstantinos Papachristos, all of: CNH, Metamorphosis, Greece

Dynamic Agricultural Environment for Real-Time Physics-Based Sensor Simulation

- Real-time dynamic agricultural environment model for large-scale plant populations and harvesting processes
- Physics-based, sensor-consistent scene generation with material-accurate assets
- High-fidelity LiDAR and camera simulation
- Framework for validation of autonomous functions and HIL testing of mobile agricultural machinery

Dr.-Ing. Nico Rüddenklau, Project Manager, Automated Driving & Software Solutions, Co-Author: Dr. Thomas, Lessmann, both of dSPACE SE & Co. KG, Paderborn

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
12:15	**Speed with Proof: How the Automotive Industry Can Scale AI Without Losing Control** ■ The Problem: AI Increases Output, But Also Expands the Quality and Liability Surface ■ The Innovation: "Trust by Construction", Deterministic Engineering as the Control Plane for AI **Wensi Jin,** Global Manager Automotive, Co-Authors: Avinash Nehemiah, Robert ter Waarbeek, Rashmi Rao, all of The MathWorks Inc., Novi, USA	**From ECUs to Zones: Enabling SDVs with Zonal Architectures and Middleware Platforms** ■ Shift from ECUs to Zonal Architecture: How zonal and centralized compute reduce wiring, manage software complexity, and enable scalable SDV designs by reorganizing sensing, actuation, and control across vehicle zones ■ Multi Domain Integration & Determinism: Challenges of consolidating mixed criticality domains on central compute while preserving real time behavior, safety isolation, and predictable end to end execution across heterogeneous nodes ■ The Software Bottleneck: Why the transition stalls at software integration-fragmented platforms, coexistence of legacy (e.g., AUTOSAR) and service oriented approaches, and the impact on CI/CX, software deployment, and OEM development cycles ■ Role of Middleware Platforms: How an additional abstraction layer unifies communication, timing, and deployment across zones and central compute; decouples applications from hardware topology; reduces integration complexity; and accelerates SDV feature delivery **Dr. Stefan Poledna,** CTO, Executive Management, TrustMotion, Vienna, Austria	**Scaling AI-ADAS/AD L4 to Break the "Re-Validation" Bottleneck** ■ Safety-Aware Scaling Bottleneck ■ Performance-Based Operational Contracts ■ Mixed-Criticality Virtual Firewall Architecture ■ Evidence-Driven, Continuous Validation **Khaled Alomari,** Manager – Software-Defined Vehicle, Co-Author: Sherif Hussin, both of MHP – A Porsche Company, Ludwigsburg	**Orchestration of AI Workloads at the Edge for Smart Digital Cockpits** ■ AI at the cockpit edge: How AI use cases like Driver Monitoring, personalization, and conversational assistants are enabled directly within the digital cockpit using existing heterogeneous compute resources ■ Third integration pathway for OEMs: An alternative to cloud-based inference and dedicated AI hardware-edge orchestration of AI workloads without continuous connectivity, high BOM increase, or privacy risks ■ Technical orchestration framework: Identification of distributed "AI Nodes" in cockpit architectures, deployment of fine tuned Small Language Models, and a combination of static and dynamic workload scheduling for safety critical and mixed critical use cases ■ Business and product impact: Reduced cost and faster time to market, improved data privacy, compliance with automotive safety standards, and support for scalable, hyper personalized cockpit experiences **Sriram G.,** Chief Architect, Connected Vehicle, Co-Authors: Shubham Mujumdar, Abhijeet Pathak, all of KPIT Technologies, Munich	**From Sensor Capability to Real-World Applications – LiDAR as an Enabler for Automation and Safety in Mobile Machines** ■ Sensor capability today vs. real-world impact ■ Designing LiDAR architectures for scalable automation ■ Understanding complexity of harsh Off-Highway environments **Oli Ramoli,** Manager, Business Development & Key Accounts EMEIA, Seyond Europe GmbH, Eschborn
12:45	**LUNCH, EXHIBITION AND START-UP AREA VISIT**				

PROGRAM – 1st CONGRESS DAY

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
	Automotive Trend Session (ATS): India – Tech & Market I **Moderation:** Dr. Rolf Zöller, DigiTrans Consulting, Tübingen	**Automotive AI – AI Developed Vehicle** **Moderation:** Stefan Singer, Vaterstetten	**Organizational Transformation** **Moderation:** Dr. Riclef Schmidt-Clausen, AUDI, Ingolstadt	**Electronics Technologies & Semiconductors** **Moderation:** Dipl.-Ing. Christof Kellerwessel, adck-consult, Cologne	**Automation and Autonomy** **Moderation:** Dr.-Ing. Carsten Hoff, dSPACE Group SE & Co, Paderborn
14:15	**Designing SDV Platforms for High-Volume, Cost-Disciplined Markets: A Minimalist Architecture Approach** ▪ Minimalist Architecture for High-Volume SDVs ▪ ECU Consolidation and Cost Optimization ▪ Centralized vs Distributed Architecture Trade-offs ▪ Mixed-Critical Workload Management and Compute Right-Sizing **Vivek Bansal, B. Eng.,** President and Co-Founder, Product Engineering and Manufacturing, VVDN Technologies Pvt Ltd, Gurugram, India	**Integrating AI-based Components into Established Software Development Toolchains for Resource-constrained, Safety-critical ECUs** ▪ From AI training to safety-suitable ECU code: Deploying neural networks on automotive ECUs requires addressing resource constraints, automotive standards compliance, and toolchain integration. ▪ Balancing performance, size, and precision: Embedded AI requires tradeoffs between execution speed, memory footprint, and numerical accuracy. ▪ Safety compliance and toolchain integration: The workflow supports ISO/PAS 8800 and ISO 26262 compliance through back-to-back testing and integrates AI components via standardized software artifacts. **Dr. Sören Grannemann,** Product Manager, Portfolio Management, Co-Authors: Lars Wallbaum, Dr. Oliver de Candido, all of dSPACE SE & Co. KG, Paderborn	**IN SESSION KEYNOTE** **Renovation under Load – Why Organisations Lose Steering Capability During the SDV Transformation** ▪ Why Cybernetics and the Viable System Model Matter for SDV ▪ SDV as a Complexity Shock ▪ The Viable System Model (VSM) Explained for SDV ▪ Using the Viable System Model to Diagnose Real SDV Failure Patterns **Andrej Levitin,** Manager | Software Delivery Excellence, Development & Technology, Porsche Consulting GmbH, Stuttgart	**Smart and Softwareless Endpoints for the Software-Defined Vehicle** ▪ Trend to SDV and the influence on the car network and the SW architecture ▪ Trend to Smart and Softwareless endpoints ▪ Application Use Cases for specific endpoints ▪ Implementation options including 10BASE-T1S, TC18 RCP **Tobias Otter,** Vice President, Technical Marketing Application and Platform, Automotive Smart Power, and **Daniel Mysliwitz,** System Architect for In-Vehicle Network, both of Infineon Technologies AG, Neubiberg	**Smart Automation in Roadbuilding: Development of Highly Integrated, Data Driven and Connected Machine Automation** ▪ Leveraging automatic machine control based on external surveying data with GNSS & RTK localization ▪ Upfront data validation & visualization to increase predictability of results ▪ Optimizing rideability and drainage with automatic wavelength and cross-slope correction on cold mills ▪ Enhancing pavement accuracy and reducing material waste through automated 2D positioning on pavers **Dipl.-Ing. Johannes Zametzer,** Associate Director Digitalization and Production Systems, R&D, WIRTGEN GROUP – Construction Technologies Holding GmbH, Windhagen, and **Dr.-Ing. Tobias Groll,** Joseph Vögele AG, Ludwigshafen am Rhein, and **Manuel Rossa, M. Sc.,** Wirtgen GmbH, Windhagen
14:45	**When Silicon Arrives, You Should AI-ready Know the Answer: The Case for Collapsing the V** ▪ Why the V model breaks in AI era automotive software ▪ How generative AI worsens the failure mode ▪ Proposed alternative: horizontal traceability from day one ▪ New metrics and implications for ADAS & SDV programs **Aditya Dandawate,** Area Director, EU - DACH, L&T Technology Services, Munich, Co-Author: Jainendra Mishra, L&T Technology Services, Bangalore, India	**AI-Based End-to-End Automotive Design and Software Development for SDVs** ▪ End-to-end AI-driven toolchain from natural-language requirements to executable SDV software, including automated generation of architectures, code, and tests ▪ Integration of large language models with model-driven engineering to ensure traceability, compliance, and consistency in safety-critical automotive systems ▪ Validation on a centralized vehicle computing platform with functions such as adaptive cruise control and emergency braking tested via HIL/SIL setups ▪ Current limitations, challenges, and future potential of fully automated “design-to-code” workflows with minimal human intervention **Nenad Petrovic, PhD,** Postdoctoral Researcher, Chair of Robotics, AI and Real-Time Systems, Co-Author: Prof. Dr.-Ing. habil. Alois Knoll, both of TUM, Garching	**RISE Framework: A Systematic Approach to Analyse and Streamline Engineering Processes Using Open Standards** ▪ Process analysis ▪ Digital Waste ▪ Standards **Oussama Jarrar, M.Sc., M.B.A.,** Ph.D. student, Electronics Planning, Co-Authors: Dr.-Ing. Andreas Holtz, both of Volkswagen AG, Wolfsburg, apl. Prof. Dr.-Ing. habil. Arndt Lüder, OVGU, Magdeburg	**Smarter Sensing: A Technical Deep Dive into the VASI-Bus and Transducerdata of Bosch‘s Ultrasonic Sensors Gen 7** ▪ VASI-Bus as an Efficient Architectural Backbone ▪ The Key Enabler: Transducer Raw Data Streaming ▪ New AI-Driven, Software-Defined Functions ▪ Future-Proof Foundation for ADAS **Dr. Sven Heider,** Global Technology Owner for Ultrasonics, Research & Development, Co-Authors: Michael Hallek, Dr. Arne Josten, Thomas Treptow, all of Robert Bosch GmbH, Renningen	**Large-Scale Offroad Robotics: Autonomy for Heavy Machinery** ▪ Autonomous heavy machinery in construction, earthmoving, and hazardous offroad environments ▪ Multimodal sensing, digital twins, simulation-supported development, and real-world validation ▪ Semantic environment understanding for offroad autonomy **Dr.-Ing. Janko Petereit,** Group Manager Autonomous Robotic Systems, R&D, Fraunhofer IOSB, Karlsruhe

PROGRAM – 1st CONGRESS DAY

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
15:15	**ADAS for Unstructured Traffic Ecosystems: A Data-Driven and Cost-Optimised Approach for Indian Road Environments** ■ Current state of the art of ADAS in India – why it fails under challenging scenarios? ■ Introduction of E2E stack and how it be used to resolve these challenges ■ Optimisation of the E2E stack for India specific nuances ■ Comparison of E2E stack vs conventional L2 AD; results, observation and conclusion **Dr. Ankur Deo,** Associate technical Specialist, Autonomous Driving Business Unit, Co-Authors: Dr. Manaswini Rath, Prafull Mankar, all of KPIT Technologies Ltd., Pune, India	**Ensuring Trustworthy AI-Driven Mobility: Monitoring Approaches from the Safe AI Engineering Consortium** ■ Dual layer monitoring that spans development and operation ■ Standards-anchored evidence for AI safety ■ Lifecycle integration of datasets, model development, validation and safety assurance **Dr.-Ing. Xinxing Wang,** Senior Program Manager, Electronics & Virtual Testing Solutions, Bertrandt Group, subsidiary Ingolstadt, Co-Author: Anna Bieberstein, Bertrandt Ing.-Büro GmbH, both Gaimersheim	**Software-Defined Products Require Software-Defined Organizations** ■ Paradigm shift from hardware-centric to software-defined development ■ Why traditional organizations struggle and what organizational readiness for software-defined development requires ■ Reference model for software-defined organizations covering organizational & operational foundations as well as people & cultural transformation **Dr. Tim Sturm,** Partner & Global Solution Lead for Mobility Transformation, 3DSE Management Consultants GmbH, Munich	**Finite Element Based Virtual Validation of Inverter Structures for Vibrational Loads** ■ Fatigue – solder joints, vibrational loads ■ Inverter fatigue, vibrational loads ■ Solder joint finite element models ■ Automatization **Dr. Walter Hinterberger,** Lead Engineer Component Dynamics & Acoustics Analysis, Structural Analysis, Co-Author: Christian Neubacher M. Sc, both of Engineering Center Steyr GmbH & Co KG, MAGNA Powertrain, St. Valentin, Austria	**Autonomy at the Jobsite: Turning Technology into Customer Value** ■ Construction equipment automation – demand, readiness, and strategy are aligned ■ Improve safety, efficiency, and productivity while reducing risk exposure ■ Progress from assistance to full autonomy – tailored solutions to each application and market ■ Ensure success with practical tech, scalable interfaces, and strong safety and cybersecurity **Dr.-Ing. Michael Schwall,** Research Engineer, R&D, Volvo Construction Equipment GmbH, Konz
15:45	**Driving Without Maps, Architected for Scale: How Quest Global's India AD Stack Is – Solving Real-World Autonomy for the SDV Era** ■ Overview of ADAS to Autonomous Driving Landscape ■ Technology behind creating Mapless Driving vs HD Maps ■ How Autonomous driving integrating with modern SDVs ■ Benefits and Challenges **Kamal Deep Sethi,** Director – Head of Autonomous Driving CoE, R&D, Co-Authors: Dr. Venkatesh Munirathnam, Dr. Naresh Yarlapati, all of Quest Global, Bangalore, India	**From AI Models to Trustworthy Vehicle Functions: SystemLevel Verification of Virtual Sensors** ■ From AI Models to Trustworthy Vehicle Functions ■ Simulation First Verification of AI Virtual Sensors ■ Integrating AI Across Frameworks into Automotive Software Stacks ■ Strategic Recommendation for Industrializing AI in SDV Architectures **Lucas Garcia, PhD,** Senior Principal Product Manager AI, The MathWorks Inc., Natick, USA	**From Regulation to Reinvention: Building AI Governance that Drives Adoption** ■ What slows down AI Adoption? ■ A tiered governance model to accelerate AI use case implementation ■ AI reinvention inside large industrial companies: learnings and best practices **Audrey Matarage,** Independent Consultant, Audrey Matarage Consulting, Stuttgart	**From Optimization to Transformation: The ACT Framework for Semiconductor Supply Chain Resilience in Automotive** ■ Current challenges: structural bottlenecks, geopolitical dependencies, and regulatory pressure in the semiconductor supply chain ■ Three drivers of fragility: legacy node bottlenecks, geopolitical concentration, and regulatory requirements in manufacturing ■ The ACT Framework: steps from awareness to control to transformation for greater transparency, controllability, and resilience in the supply chain **Maximilian Krane,** CEO, Management Board, Co-Author: Helen Gallwas, both of btv technologies GmbH, Unna	**Systematic Collection of Multimodal Images and Creation of a Farm Field World Model for Highly Predictive Farming Operation** ■ Architecture of autonomy stack with perception, reasoning and control layer ■ AI models/technologies ■ Data workflow of farming operation with the architecture and tech stack ■ Example use cases for application **Somenath Mukherjee,** Engineer, R&D, CNH Industrial, Oak Brook, USA, Co-Author: Jacob Deines, CNH Industrial, Sioux Falls, USA
16:15	**COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT**				

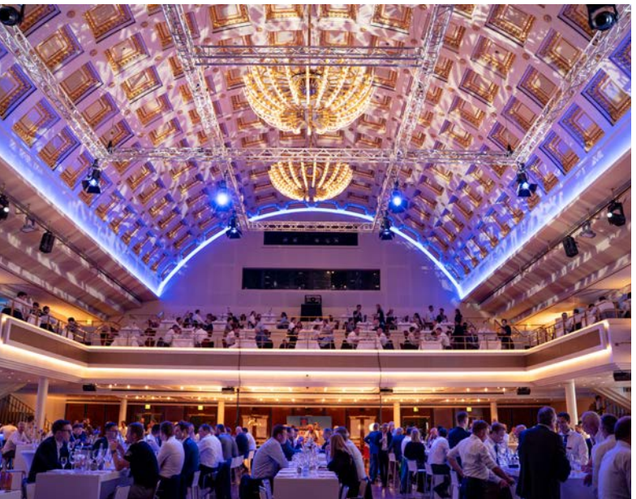
	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
	Automotive Trend Session (ATS): India – Tech & Market II **Moderation:** Dr. Rolf Zöller, DigiTrans Consulting, Tübingen	**Software for the SDV – Data Driven Development** **Moderation:** Joachim Langenwalter, TMT CoPilots, Munich	**Architecture – Powernet** **Moderation:** Dipl.-Ing. Kai Lars Barbehön, BMW, Munich	**Quantum – Future Computing** **Moderation:** Dr. Patrick Bartsch, Amazon Web Services, Wolfsburg	**Software-Defined Machines** **Moderation:** Dr.-Ing. Steffen Mutschler, Bosch Rexroth, Ulm

17:00	**From India to Global Scale: Industrializing AI and Connected Vehicle Platforms in Software-Defined Mobility**
	■ Transformation from GCC to innovation powerhouse through AI, Software-defined systems, and ecosystem partnerships:
	  ■ Connected Mobility Solutions: enabling software-defined, connected vehicle ecosystems
	  ■ EVOCO: human-centric AI bridging physical and digital worlds
	  ■ AIShield: enterprise-grade AI security against attacks and vulnerabilities
	Guru Mallikarjuna, CTO, Executive Board & SVP, Mobility Solutions, Co-Author: Hareesha Shirankallu Narayana, Managing Director, Bosch Global Software Technologies GmbH, Stuttgart, Germany
		Accelerating Automotive Innovation via AI-Enhanced Data-Driven Development
		■ Autonomous driving reality: Safe L4 operation requires handling highly dynamic, unpredictable environments.
		■ Core challenge: Validating rare, safety-critical edge cases is essential.
		■ AI-driven acceleration: Generative and agentic AI scale scenario creation, analysis, and validation.
		■ Real-world proof: Data-driven methods improve safety, robustness, and scalability (autonomous trucking)
		Yann Baudouin, Head of Product Line Safety, and Head of Data Driven Development & DevOps Business Area Autonomous and Commercial Mobility, AUMOVIO SE, ADC Automotive Distance Control Systems GmbH, Riemerling, Co-Authors: Guenther Raedler, Christian Geiger, Kamil Klonecki, Surendhar Selvaraj, all of AUMOVIO Lindau/Frankfurt/India
			IN SESSION KEYNOTE
			The Three Pillars for Tomorrow's Powernet
			■ Limits of today's 12V powernets (high power demand, high currents, weight disadvantages)
			■ Pillar 1: consistent 48V distribution and supply (up to ~75% current reduction, smaller wires, lower losses, improved EMC)
			■ Pillar 2: eFuses (fast/deterministic protection, software-configurable behavior, diagnostics)
			■ Pillar 3: HV/LV integration of safety-critical energy sources (higher availability, architecture simplification potential, cost and weight benefits)
			Martin Sesselmann, M. Sc., Product Owner Energy Supply Architecture, Research & Development, Co-Authors: Raphael Demmelhuber, B. Eng., Dr. Markus Orner, all of Mercedes-Benz AG, Sindelfingen
				Quantum Computing for Automotive Engineering – Quo Vadis
				■ What practical impact would Quantum Computing have on Automotive Industry? A comprehensive overview, structured by maturity horizons: from immediate to long-term
				■ Within each horizon, we would zoom in on the most relevant use-cases: from post-quantum cryptography, to development of new materials, to new tools for simulation and optimisation
				■ We will shed light on the technological roadmaps and suggest adoption plans, based on our hands-on experience together with our clients and partners
				■ Industrial strategy and call to action: how shall Automotive companies address the Quantum technologies specifically, step-by-step
				Kirill Shiianov, M. Sc., Quantum Technology Specialist, Data & AI, Capgemini Engineering Deutschland S.A.S. & Co. KG, Leinfelden-Echterdingen
					Software-Defined Vehicle (SDV): Leadership Problem or Execution Dilemma? Detailed Analysis of the State of the Industry from Technology to Processes
					■ SDV as most discussed yet least fully realized transformation
					■ Deep-Dive into the current state of the SDV transformation for mobile machines supported by cross-industry case studies and outside-in assessments
					■ Highlighting concrete strategic actions OEMs can take to adapt legacy structures with software-centric cultures and leverage partnerships to accelerate progress
					■ Insights about SDV monetization pathways
					Michael Herdrich, Project Team Member, Consulting, Co-Author: Patrick Eisele, both of: P3 Consulting GmbH, Stuttgart

17:30	**Industrializing AI-Defined Vehicle Architectures** ■ System Ownership Challenges in the Transition from SDV to AIDV ■ Vertically integrated engineering stack ■ Lifecycle AI infusion across engineering and validation ■ India-led technical ownership **Aaswad Kulkarni, B. Eng.,** Head - Vehicle Software Architecture, Automotive Engineering, Industrial Autonomy & Engineering, Tata Consultancy Services Deutschland GmbH, Frankfurt/Main	**Full Circle Diagnostics and Repair** ■ Challenge: DTC-based diagnostics fall short for complex SDV software faults ■ Solution: data-driven, AI-based diagnostics detect unknown errors and identify root causes ■ User-centric & flexible: clear vehicle health view with remote, workshop, and driver actions ■ Vision: predictive, adaptive diagnostics using AI, connectivity, and OTA for higher reliability **Dr. Claudio Seitz,** Solution Field Portfoliomanager Security, Information and Diagnostic Solution, Co-Author: Dipl.-Ing. Sven Sauerzapf, both of ETAS GmbH, Stuttgart	**Future Low-Power Drives for New Vehicle Architectures: From 48V Solutions to Ethernet-Based, Highly Integrated Drives** ■ New 48V and Automotive Ethernet architectures demand adapted low-power drives for auxiliary systems ■ Cost-efficient integrated 48V solutions remain a key challenge for suppliers and chip manufacturers ■ Automotive Ethernet enables centralized software via high-speed communication ■ Future electrical drives combine motors, Ethernet interfaces, and integrated control electronics ■ Prototype RCP solutions show strong cost-saving and efficiency potential for EC and DC drives **Dipl.-Ing. Arno Schaumann,** Vice President Engineering, Research & Development, Co-Author: Dipl.-Ing. Rainer Berger, both of Robert Bosch GmbH, Bühl	**Post Quantum Cryptography in Automotive: Why Migration Must Start Now** ■ Harvest Now, Decrypt Later – Attackers are already collecting encrypted data today to decrypt it with future quantum computers ■ Regulatory Pressure – NIS2, Cyber Resilience Act, UN ECE R155 mandate state-of-the-art cryptography ■ NIST Standards Available – ML-KEM, ML-DSA, SLH-DSA are ready for deployment since 2024 ■ Start Migration Now – Development decisions made today determine the quantum readiness of vehicle fleets from 2035 onwards **Dipl.-Wirtsch.-Inf. Martin Mast,** Lead Business Consultant, and **Dr. Lorenzo Guerrasio,** Lead Business Consultant, both Software-Defined Vehicle, msg for automotive gmbh, Ismaning	**Software-Defined Autonomy: How Standard Hardware Scales in New Applications** ■ Software over specialized hardware: scalable autonomy ■ Case example: control unit for mobile machines & AI hazard-zone monitoring ■ Safety-critical perception: ML-Ops for safe AI ■ Dynamic safety: continuous assurance in the field **Kevin Hirsch, M. Sc.,** Lead Engineer, R&D, ITK Engineering GmbH, Rülzheim, Co-Author: Max Rasumak, ITK Engineering GmbH, Lollar

PROGRAM – 1st CONGRESS DAY

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
18:00	**Panel Discussion: India – Tech & Market** **Moderation:** Dr. Rolf Zöller, DigiTrans Consulting **Panelists:** ▪ Binoy Paul, Mahindra & Mahindra ▪ Kishor Patil, KPIT ▪ Ujwala Karle, ARAI **Further participants to be announced.**	**AI Supported Problem & Defect Management for Complex Automotive Systems** ▪ Data-driven problem and defect management in software-intensive automotive development ▪ Semantic similarity and AI methods for duplicate detection across development domains ▪ AI-assisted defect authoring, classification and routing integrated into ALM processes ▪ Practical experience, KPIs and governance aspects for series development **Dr. Michael Keckeisen,** Managing Director & COO, TWT GmbH Science & Innovation, Stuttgart, and Michael Adam, Vice President, Department Electronics, Basic Software, System Functions, BMW Group, Munich	**Towards Energy Efficient High Performance Computers for Software-Defined Vehicles** ▪ The impact of high energy consumption of HPCs ▪ The correlation with Software-defined vehicles ▪ Introducing a new method to optimize energy through an integral and centralized energy-savings framework, complying with real-time system ▪ Illustrative Example through a published patent **Dr.-Ing. Thawra Kadeed,** Senior Engineer, System Engineering, AES - AUMOVIO Engineering Solutions GmbH, Frankfurt/Main	**Quantum Computing and Post-Quantum Cryptography in Automotive Industry** ▪ Post Quantum Cryptography ▪ Quantum Computing ▪ Automotive ▪ Cybersecurity **Dr. Jan van Lier,** Senior Manager Connectivity Concepts, and **Paulus Korsakas,** Senior Manager Automotive Cybersecurity, both Software Defined Vehicles, Co-Author: Alex Artamonow, all of MHP Management- und IT-Beratung GmbH, Ludwigsburg	**Mature User Experience in Software-Defined Machines: From Interface Design to Product Differentiation** ▪ From softwarization to complexity: how software-defined machines reshape interaction, workflows and user expectations ▪ Beyond interface design: UX as a driver for product differentiation, efficiency and customer value creation ▪ Patterns of UX integration: how organizational and product decisions impact clarity, development speed and market positioning ▪ A pragmatic framework for UX maturity: applying targeted design levers aligned with business goals and technical constraints **Dr. Jan Seifert,** Lead User Experience, User Experience Design, UID GmbH, Darmstadt
18:30	**END OF THE 1st CONGRESS DAY**				
19:00	**NIGHT OF ELECTRONICS** **Experience the unique charm of Baden-Baden's historic Kurhaus while reconnecting with familiar traditions: alongside food and drinks, our popular evening party with DJ returns once again. Take the opportunity to network in an inspiring atmosphere and enjoy memorable conversations beyond the congress program.**				



2nd Congress Day

THURSDAY, OCTOBER 15, 2026

AUDITORIUM

08:30 **Driving the Future of Mobility - Architecting the AI-Defined Vehicle**

Thomas Böhm, Senior Vice President Automotive Microcontroller, Infineon Technologies, Munich

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
	Automotive Trend Session (ATS): Automotive AI **Moderation:** Dr. Patrick Bartsch, Amazon Web Services, Wolfsburg	**Software for the SDV – Middleware & Tools** **Moderation:** Michael Hörig, Robert Bosch, Stuttgart	**Architecture – Open Source for SDV** **Moderation:** Dipl.-Ing. Jochen Strenkert, Mercedes-Benz, Sindelfingen	**Disruptive Methods & Tools** **Moderation:** Dipl.-Ing. Martin Schleicher, Consultant, Erlangen	**Connectivity and Communication** **Moderation:** Prof. Dr.-Ing. Thomas Herlitzius, Dresden University of Technology
09:00	IN SESSION KEYNOTE **AI Isn't Just Transforming Automotive Development, It's Detonating the Old Playbook** ▪ The State of AI in Automotive Development (2026 Reality Check) ▪ From Isolated Pilots to Integrated AI Engineering Pipelines on the technical shift inside the engine room of automotive development ▪ Human-AI Chemistry: Closing the Gap: From Traditional to AI-Native Engineering A data-driven call to action for automotive leaders **Dipl.-Ing. Steffen Krause,** Head of Software Defined Vehicle Capgemini Invent, Intelligent Industry Automotive, and **Bora Ger,** Global Lead Human-AI Advantage and Chief AI Strategist @ Global AI Lab, both of Capgemini Invent, Munich	**AI-Enabled Functional Safety Middleware for Next Generation Modern E/E Architectures** ▪ Eclipse S-CORE as the Open Source foundation for next-generation functional safety middleware in centralized and zonal E/E architectures ▪ Deterministic execution and mixed-criticality support for high-performance vehicle computers ▪ AI-augmented engineering tooling for middleware configuration, validation, and system integration ▪ From Open Source framework to production-ready platform: Qorix's role in shaping the Eclipse S-CORE ecosystem **Markus Schupfner,** CEO & Managing Director, QORIX GmbH, Munich	**From Cloud to Vehicle: An Open Source Pipeline for AI Model Deployment, Isolation, and Lifecycle Management** ▪ Reproducible OS Images: The vehicle OS and all AI dependencies are built from a single, auditable configuration ▪ AI Workload Isolation: AI workloads run safely in a partition, isolated from critical vehicle functions using standard Linux security primitives ▪ Model Lifecycle Management: Centralized orchestration manages model serving, versioning, and hot-swapping updates on the vehicle without downtime ▪ Cloud-to-Vehicle Delivery: Models are delivered from the cloud via standard OCI container registries, unifying the model pipeline with existing software delivery **Vinicius Tadeu Zein, M. Sc.,** Sr. Principal Architect and Partner Manger, Automotive Business Unit, Red Hat Inc, Winter Garden, USA	**Agentic AI-Enabled Development for RISC-V Architectures in the SDV Era** ▪ Designing and implementing agentic AI–driven workflows ▪ Legal considerations, and intellectual property protection ▪ Controlling and governing AI behavior to ensure process compliance and safeguard IP ▪ End-to-end AI assistance across requirements engineering, static analysis, compilation, debugging, and unit testing **Gerard Vink,** Industry Specialist - Business Development & Innovation Team, TASKING GmbH, Munich	**From Harvest Data to Decisions: Introducing a Framework for Interoperable Task Records in Connected Agricultural Systems** ▪ Unlocking the full value of harvest data for smarter farming decisions ▪ Turning timelog data into actionable insights and clear performance patterns ▪ Pre-interpreted, ready-to-use maps enabling seamless data exchange ▪ From concept to scale: implementation strategies and standardization frameworks **Christian Schöer, M. Sc.,** Leading Engineer, Construction & Development, Co-Author: Dr. Alexander Grever, both of Maschinenfabrik Bernard KRONE GmbH & Co. KG, Spelle

PROGRAM – 2nd CONGRESS DAY

09:30

AUDITORIUM

Stop Prompting. Start Specifying. - How Formal Languages and AI Agents Automate Embedded Automotive Software Development

- Why „vibe coding“ fails for safety-critical embedded automotive systems
- Spec-Driven Development: SysML V2 as the formal interface for AI code generation
- From model to metal: AI agent generates Rust firmware, deploys via OTA to real hardware
- Live on stage: model car driven from specification – where SDD works today and where its boundaries are

Georg Doll, CTO Automotive & Mobility, Solutions Engineering, Microsoft, Munich

KONGRESSSAAL 2

AUTOSAR the Backbone for Software- and AI-Defined Vehicles

- Adaptive Platform with CAPI – complementary architectures supporting both deterministic real-time control and high-performance, AI-capable computing in centralized vehicle architectures
- Industrial deployments at scale – real production implementations across Asia and China with OEMs such as XPENG, BYD, and Huawei
- Accelerating execution through ecosystem collaboration – integration with initiatives like Eclipse SDV, S-CORE, SOAFEE, COVESA, and ECAVA and the latest CAPI deployment results presented at AOC Shanghai and the Beijing Motor Show

Joachim Langenwalter, M. Eng., Spokesperson AUTOSAR and CEO TMT CoPilots, Executive Advisor, AUTOSAR and TMT CoPilots, Munich

KONGRESSSAAL 1

The Autopilot for Functional Safety: Combining Certified Open Source Middleware with AI-Driven Architecture & Artifact Generation

- Current developments in AI-assisted Software Engineering
- Why Open Source is critical for AI-assisted Software Engineering
- A methodology for synchronous code & artifact generation for ISO 26262 compliance
- Impact on the SDV Ecosystem

Dr.-Ing. Alexandru Kampmann, Founder, R&D, Co-Author: Dr.-Ing. Dominik Püllen, Determion GmbH, Aachen

KONGRESSSAAL 3

Risk Based Testing Instead of Test Case Explosion - Making Safety Argumentation Measurable for ADAS and Automated Driving

- Enabling management-level test prioritization for ADAS/AD development
- Creating transparency and confidence in safety decisions
- Supporting scalable virtual test campaigns
- Strengthening simulation credibility for safety-critical decisions

Dipl.-Ing. Florian Sontheim, M. Sc., Senior Consultant, Business Development & Consulting, dSPACE SE & Co. KG, Paderborn

FORUM

From Big Data to Fast Data: Feedback-Controlled Data Collection on the Edge

- Big data logging in mobile machines faces coverage gaps, bias, redundancy, and high costs
- “Fast data” approach: on-vehicle algorithm selects only the most informative samples in real time
- Benefits: less bandwidth, storage, and processing with better data quality and coverage
- Improves AI robustness and real-world generalization

Dr.-Ing. Tobias Schürmann, Department Manager, Embedded Systems and Sensors Engineering (ESS), FZI Forschungszentrum Informatik, Karlsruhe, Co-Authors: Philipp Reis, FZI Forschungszentrum Informatik, Karlsruhe, Prof. Dr.-Ing. Eric Sax, Institut für Technik der Informationsverarbeitung (ITIV), Karlsruher Institut für Technologie

10:00

AUDITORIUM

Generative-AI Assistance for Software-in-the-Loop Validation

- Use of GenAI for Virtualization and SIL enablement
- AI-aided ECU Code Integration in SIL environment
- AI-generated test cases and test analysis with standardized Test Automation SDK API
- Combined AI methods for automotive validation processes

Kevin Reim, M. Sc, Manager Business Development, Business Development & Consulting, Co-Authors: Youssef Badawi, Hitarth Bhatt, all of dSPACE SE & Co. KG, Paderborn

KONGRESSSAAL 2

Rust for Automotive ECUs: A Practical Landscape of Frameworks, Tools, and Methods for Safety-Critical Embedded Development

- RUST programming language
- Automotive Applications
- Automotive Basic Software
- Best Practices

Dr.-Ing. Florian Baumann, System Technical Expert - SDV, Co-Authors: Petr Moucha, Radovan Blazek, all of STMicroelectronics Application GmbH, Aschheim

KONGRESSSAAL 1

More Than Code: Building Eclipse S-CORE as New Standard for SDV and the Business of Industrializing it

- From Code to Product: Introducing the Eclipse S-CORE project's development and collaboration model to enable industrializing Open Source Software for the SDV
- Accelerating Development Cycles: Showcasing how a „code first“ methodology reduces development and decision-making cycles from months to days
- A Layered Approach: Detailing how the combination of an Open Source core, a hardened distribution, commercial extensions and professional services ensures quality, security, and production readiness
- The ETAS Value Proposition: Explaining how a professional distribution partner acts as an „Ecosystem enabler“ to maximize reuse, reduce total cost of ownership, and enable safe Open Source Software adoption

Björn Reistel, M. Sc., SDV Ecosystem Development & Community Manager, Co-Author: Sven Kappel, both of ETAS GmbH, Hildesheim

KONGRESSSAAL 3

Docs-as-Code Meets ASPICE: An AI-Assisted Workflow for Automotive Teams

- Git-native storage
- Everything-as-code
- AI agents as support
- Deterministic tools for safety

Daniel Woste, Chief Product Officer, and **Max Pabinger,** CSO, both of useblocks GmbH, Munich

FORUM

High-Speed ISOBUS (HSI) for Next-Generation Precision Agriculture

- High-speed backbone for future machine communication
- Cameras, control, diagnostics, and updates on one network
- Migration path with existing CAN-based systems
- Challenges in connectors, cybersecurity, and standardization

Jason Roesbeke, M. Sc., Senior Embedded Software Engineer, R&D, CNH, Zedelgem, Belgium, Co-Authors: Stefan Richter, M. Sc., CNH Industrial Deutschland GmbH, Dresden, Marius Zwicker, M. Sc., CNH Industrial Deutschland GmbH, Würzburg

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
10:30	**Panel Discussion: Automotive AI** **Moderation:** Dr. Patrick Bartsch, Amazon Web Services **Panelists:** ■ Bora Ger, Capgemini Invent ■ Kevin Reim, M. Sc., dSPACE Further participants to be announced.	**Building Trust in Tools through Continuous Qualification in the Software-Defined Vehicle Era** ■ C/C++ compiler and std library qualification as part of ISO26262 ■ A new mindset: continuous qualification ■ Product lifecycle confidence ■ Safety Critical automotive software **Sjoerd Van der Zwaan, M. Sc.,** Chief Product Officer, Management team, Co-Author: Dr. Marcel Beemster, both of Solid Sands B.V., Amsterdam, Netherlands	**The $2 Trillion Shift: How Open Source Is Defining the Software-Defined Vehicle** ■ The technical challenges facing SDV development ■ How open source and industry collaboration can accelerate SDV development. ■ An overview of AGL and the SoDeV reference platform for SDVs. **Dan Cauchy,** General Manager of Automotive, Executive Director of Automotive Grade Linux, The Linux Foundation, San Francisco, CA, USA	**Next-Generation Automotive Software Factory: Evolving CI/CD Pipelines for AI-Generated Code using X-as-Code Principles** ■ X-as-Code for automotive software development ■ Automated CI/CD with integrated compliance and traceability ■ Shift-left validation through virtualization and simulation ■ Managing AI-generated code in safety-critical pipelines **Dr. Nemanja Lukic,** CTO, Co-Author: Günter Gromeier, both of RT-RK, Novi Sad, Serbia	**SOVD for High-Speed ISOBUS: Challenges of Dynamic, Multi-Vendor Systems** ■ Mismatch between diagnostics for legacy and software-defined machinery architectures ■ HighSpeed ISOBUS defines the technical foundation with SOVD being the diagnostic solution ■ SOVD is structurally aligned with software-defined machinery, but essential functionalities are missing ■ Major functionality to be added to SOVD is plug-n-play support for HighSpeed ISOBUS in dynamic and multi-vendor environments **Dr. rer. nat. Boris Böhlen,** Senior Program Manager, Business Development, Co-Author: Dr. Diana Fischer, both of: DSA Daten- und Systemtechnik GmbH, Aachen
11:00	**COFFEE BREAK, EXHIBITION AND START-UP AREA VISIT**				
11:45	**LIGHTNING TALKS – 10 INNOVATIVE THREE-MINUTE RAPID-FIRE PITCHES ON AUTOMOTIVE TOPICS**				

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
	Automotive AI – Ecosystems **Moderation:** Dipl.-Inf. Elmar Frickenstein, Elstein Consulting, Munich	**High Performance Computing** **Moderation:** Dr. Patrick Schmitt, Mercedes-Benz, Sindelfingen	**Security** **Moderation:** Prof. Dr. Jörn Eichler, Volkswagen, Wolfsburg	**Automated Driving – Simulation** **Moderation:** Prof. Dr. Jürgen Bortolazzi, Porsche, Weissach	**Electrification** **Moderation:** Dr.-Ing. Michael Schwall, Volvo Construction Equipment Germany, Konz
12:15	IN SESSION KEYNOTE **AI-Driven Vehicle Orchestration: How Software-Defined Vehicles Become Industrial AI Ecosystems** ■ Industrial AI Cloud ■ Vehicle Marshalling ■ Teleoperated Driving ■ Automotive AI **Jörg Tischler,** Head of Connected Mobility, Co-Author: Christer Neimöck, both of T-Systems International, Düsseldorf	IN SESSION KEYNOTE **New E/E Vehicle Architecture – Technology-driven Perspective of the Automotive Supplier Industry** ■ Evolution of vehicle architecture and necessity of adaptation ■ Requirements for E/E architecture, consequences and challenges for suppliers and solution approaches ■ The crucial role of Software in new E/E-architectures ■ Learnings and call for action on behalf of suppliers & impact on the supply chain **Michael Niklas-Höret,** SW Architect SDV, Automotive Section, ZVEI e. V. (hereby represented on behalf by AUMOVIO), Berlin, Co-Authors: ZVEI Member companies (automotive)	**A Context-first Approach to AI-Driven Connected Vehicle Analytics** ■ Data fusion across APIs, connected vehicle telemetry, and operational data enables earlier identification of cybersecurity threats and vehicle quality issues ■ A live digital twin provides behavioral context across vehicles, components, and digital systems, supporting advanced AI-driven automotive analytics ■ Unified anomaly detection, investigation, and response across cybersecurity and after-sales quality use cases enables continuous monitoring and issue prioritization ■ Faster root cause analysis for after-sales quality and security teams enables earlier problem identification and more efficient countermeasure implementation **Dr.-Ing. Matthias Lenk,** Sales Director DACH, Upstream Security, Grimma	**Virtual Homologation with Credible Simulation** ■ Shift towards simulation supported homologation ■ Requirements for credible simulation ■ End to end workflow for virtual testing ■ Tool implementation for traceability and process integration **Dr.-Ing. Sami Bilgic Istoc,** Senior Consultant, Strategic Consulting & Engineering, IPG Automotive GmbH, Frankfurt/Main	**Re-Engineering the Jobsite: Lessons from Electrifying a Compact Dumper with Telematic Function** ■ Electrification of construction equipment machinery starting from ICE powered machine ■ System Integration architecture: from propulsion to auxiliaries ■ Controls/Automation and Safety on a scalable electric system ■ Efficiency improvements and total cost of ownership **Eng. Paolo Patroncini, PhD,** Managing Director/CEO, R&D, 4e consulting srl (ZAPI Group), Ferrara, Italy

PROGRAM – 2nd CONGRESS DAY

	AUDITORIUM	KONGRESSSAAL 2	KONGRESSSAAL 1	KONGRESSSAAL 3	FORUM
12:45	**From Centralized Control to Coordinated Intelligence: Orchestration Patterns for AI in SDVs** ■ Modern SDVs host multiple AI components across domains, creating cross-domain interactions that current architectures do not explicitly coordinate. ■ Centralized compute platforms do not guarantee coordinated intelligence; orchestration is required to manage AI components within deterministic E/E systems. ■ Architectural orchestration patterns (supervisory, hierarchical, federated) enable coordination of AI across edge, HPC, and cloud environments. **Prasanth Gowravajhala,** Senior Manager – Software-Defined Vehicle, MHP – A Porsche Company, Ludwigsburg	**From Architecture to Emotion: The Heart of Joy Driving Stack for BMW's Next Era of Driving Pleasure** ■ Architecture-first Neue Klasse with the Heart of Joy Driving Stack as a central driving "superbrain" ■ Fully in-house software orchestrating drivetrain, driving dynamics, braking, recuperation, and steering ■ Cross-domain integration and ultra-low latency delivering driving precision, traction, and BMW's smoothest stopping ever ■ E/E architecture decisions directly enabling the next era of BMW driving pleasure – with measurable customer benefits **Christian Thalmeier,** Head of Product & Technical Information, User Experience and Competitive Benchmarking, Development Driving Experience, BMW AG, Munich	**Trust Boundary Failures in LLM-Enabled Smart Cockpits: Attack Patterns and a Defense Architecture** ■ Blurred Trust Boundaries Between User Input, LLM Reasoning, and Vehicle Functions ■ Prompt Injection and Jailbreak as Dominant Attack Patterns ■ Input/Output Mediation as a Core Defense Principle ■ Risk-Aware Protection at the Vehicle Edge **Gregor Knappik**, Snr. Solution Architect Cybersecurity, Cybersecurity Solutions, VicOne, Garching	**Toward Regulation Compliant AD Validation: A Simulation Method Aligned with EU 2022/1426 and Applied to a Vision Language Action Model** ■ Virtual ADAS validation ■ Legislation (EU 2022/1426 – L4 ADS) ■ Digital Homologation ■ Vision Language Action Models (VLA) **Tobias Brünker, M. Sc.,** Software Engineer ADAS/AD, Technical Unit Software, Co-Authors: Dr.-Ing. Max-Arno Meyer, Dipl.-Ing. Jörg Kottig, all of FEV.io GmbH, Aachen, Muhammed Emin Baslak, FEV Türkiye, Istanbul	**Unlocking the Full Value of Traction Batteries: Vehicle-to-X Opportunities for Low Voltage Mobile Machinery** ■ Why electric mobile machines need added value beyond propulsion – and how V2X helps offset high battery costs ■ Overview of the V2X ecosystem (V2L, V2H, V2G), including standards, regulations, and off-highway specific challenges ■ High-value real-world applications ■ Future V2H/V2G opportunities **Dipl.-Wirtsch.-Ing. Philipp Tielmann,** Head of Powertrain Solutions Sales, Business Development & Productmanagement, Jungheinrich Norderstedt AG & Co. KG, Norderstedt, Co-Author: Dipl.-Ing. Christian Jäger, Industrie Elektronik Brilon (IEB), Brilon
13:15	**AI-Assisted E/E System Design with Integrated Safety and Security Engineering for SDVs** ■ AI-Driven Transformation of SDV System Engineering ■ AI-Enhanced Safety, Security & Compliance Engineering ■ Automation of Architecture & Configuration Workflows ■ End-to-End Intelligent Development Lifecycle **Dr. Ahmed Majeed Khan,** Vice President, System Design, SystemWeaver, Gothenburg, Sweden	**Automotive-Grade Chiplets: Reliability, Safety, and Design Challenges** ■ Automotive architectures are evolving toward centralized HPC reducing the amount of ECUs, while enabling scalable cost-effective solutions and faster time-to-market ■ Chiplet modules for HPC and AD provide a scalable, flexible alternative to monolithic designs, reducing cost and power while accelerating deployment ■ Multi die chiplets with HBM deliver hundreds of teraflops processing power and memory bandwidth of TB/s for L4/L5 ■ Challenges include co-design, thermal validation and complex multi vendor verification ■ Leverage Socionext experience in designing L4/L5 SoCs for OEMs and Tier1s **Gil Golov, M. Sc.,** Senior Director Solution SoC Marketing, Socionext Europe GmbH, Langen	**Cybersecurity Opportunities in Open Source-SDV** ■ Integration of vulnerability management and risk management ■ Time-dependent risk analysis from development to decommissioning ■ Improved visibility of potential attack chains from unresolved vulnerabilities ■ Open Source contribution to vulnerability and risk management **Dr. Tobias Nilges,** Head of Cybersecurity, Co-Author: Paul Haile, both of Carbyte Engineering GmbH, Rülzheim	**Accelerating Automotive Radar Innovation through Realistic Simulation** ■ Limitations of traditional automotive radar development: slow, costly hardware-driven cycles and insufficient real-world data labeling for AI ■ Realistic radar simulation as an enabler for data-driven development, allowing virtual validation and AI training before hardware availability ■ Key components of high-fidelity simulation: radar-accurate 3D environments, digital sensor twins, and physics-based modeling of wave propagation effects ■ Impact on innovation: faster development cycles, automated high-quality data labeling, and improved robustness and transferability of radar AI models **Marcel Hoffmann, M. Sc.,** Managing Director, Co-Authors: Dr.-Ing. Johanna Bräunig, Dr.-Ing. Michael Stelzig, all of fiveD GmbH, Erlangen	**DC Charging Communication and Megawatt Charging System (MCS) for Electrified Mobile Machines – Standards, Architecture and System Integration** ■ Overview of DC charging communication from IEC 61851 to ISO 15118 ■ Communication sequence and system architecture for high-power charging ■ Transition from CCS to MCS and adoption of ISO 15118-20 ■ Ethernet-based communication (10BASE-T1S) and cybersecurity requirements **Dr. Stefan Nagel,** CTO, Head of Division, Chargebyte GmbH, Leipzig
13:45	**LUNCH, EXHIBITION AND START-UP AREA VISIT**				

PROGRAM – 2nd CONGRESS DAY

KEYNOTES AND CONCLUSION – AUDITORIUM

Moderation: Dr. Rolf Zöller, DigiTrans Consulting, Tübingen, former Porsche AG and Porsche Digital

15:00	**From SDV to AI-DV – an OEM Perspective** ■ Software-Defined Architecture – AI-Native Architecture ■ Data-Centric Vehicle Lifecycle ■ Autonomous Intelligence at Scale **Katrin Matthes,** Lead Software Technologist, R&D, Ampere, Biot, France
15:30	**Keynote - To be announced shortly**
16:00	**CONCLUSION & CLOSING OF THE CONGRESS**
16:15	**END OF THE CONGRESS**

SPECIALS

Accompanying Conference – Mobile Machine Electronics 2026

Exciting changes are shaping the future of mobile machinery. The successful introduction of autonomously driving tractors, agricultural robots, and construction machinery into practical use marks an important milestone for the industry. However, achieving true autonomy and efficiency requires the automation of entire work processes. To meet this challenge, the industry is increasingly relying on intelligent sensor technology, advanced E/E systems, robotics, and artificial intelligence.

Mobile Machine Electronics 2026 focuses on the next step in autonomous mobile machinery: fully automated work processes supported by intelligent sensors and AI. The event will present innovative solutions and inspiring ideas that demonstrate how machine performance increases with higher levels of automation. Topics include new technologies, robotics, AI-supported systems, and machinery for efficient agriculture and construction.

Taking place in parallel with the next ELIV, Mobile Machine Electronics 2026 offers an excellent platform for researchers, developers, and industry experts to exchange knowledge, discuss future technologies, and explore the latest developments in autonomous mobile machinery. Further information on the event can be found at: **vdiconference.com/01TA111026**

Participants can attend the ELIV and Mobile Machine Electronics presentations.

Awards

Your vote counts! Rate the speakers and help us identify the best speakers at the congress. Awards will be presented in the following categories:

- Best Keynote
- Best Young Speaker (Auto Electronic Excellence Award)
- Best Speaker at ELIV 2026
- Best Speaker at Mobile Machine Electronics 2026
- Best Start-up Presentation

The evaluation process will be introduced on site.

Lightning Talks – Three-Minute Pitches on the Main Stage

With the release of the program of ELIV 2026, we are once again looking for dynamic individuals who are ready to take the stage and deliver a captivating three-minute talk to our audience of industry experts, entrepreneurs and enthusiasts. Whether you are a seasoned professional, an aspiring innovator or a young professional, we want to hear from you! As a Lightning Talks speaker, you will have the unique opportunity to showcase your expertise, share your insights and inspire others with your passion for innovation. Whether you are introducing a revolutionary technology, presenting ground-breaking research or sharing your vision for the future, this is your chance to shine on the main stage at ELIV 2026.

Deadline for submission of your pitch idea: August 28, 2026
Send your idea to **birgit.bremer@vdi.de**.

Your proposal should include the title, a brief description of your pitch and speaker details including age. Please limit yourself to a maximum of 500 characters.

Presenters will be charged 50% of the congress ticket price.

NextGen Program

The NextGen Program is designed to support future decision-makers and give them the opportunity to build the network for tomorrow today.

The program not only offers participation in the regular congress but also includes a tailor-made supporting program which is specially created to meet the needs and interests of young professionals. In addition to attending the presentations, there will be numerous opportunities to exchange ideas and network with top experts and other motivated young professionals Young talents who are no older than 35 and already working in the field of automotive electronics and software can take part. Registration for the NextGen Program is only possible via the senior manager with a corresponding recommendation.

Participants in the program (both juniors and seniors) receive a discount on the congress ticket price. Further information on the NextGen Program can be found on our website at **eliv-congress.com**.

EXHIBITION & SPONSORING

Where Electronics and Software Drive the Future: The ELIV Exhibition

Driving Innovation in Automotive Electronics – Where Software, Electronics and Innovation Connect.

The **ELIV exhibition** is more than just an accompanying platform – it is the central meeting point for the automotive electronics community. Technology leaders, OEMs, Tier 1s, software companies and engineering experts come together to discuss the software-defined vehicle and next-generation automotive technologies.

Around **70 national and international exhibitors** showcase solutions across automotive electronics and software development – from semiconductors and E/E architectures to AI, cybersecurity, connectivity, testing and simulation. This makes the exhibition one of the **largest industry gatherings for electronics in the automotive sector.**

ELIV creates the ideal environment for direct exchange with decision-makers and technical experts. Here, innovations are not only presented, but discussed, challenged and transformed into future collaborations and concrete projects.

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dSPACE is a leading provider of simulation and validation solutions worldwide for developing connected, autonomous, and electrically powered vehicles. Our range of end-to-end solutions is used particularly by automotive manufacturers and their suppliers to test the software and hardware components in their new vehicles, long before a new model is allowed on the road. Our portfolio ranges from end-to-end solutions for simulation and validation to engineering and consulting services as well as support.

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dSPACE Group SE & Co. KG
Rathenaustr. 26
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Phone: +49 5251 1638-0
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(June 12, 2026)

START-UP AREA

Opportunities for young companies

ELIV offers young companies the opportunity of presenting their latest developments and products in automotive electronics in the start-up area. Get the chance to meet the exclusive, international group of participants consisting of decision-makers and specialists from vehicle manufacturers, suppliers, and service providers as well as representatives from universities. In addition to a full-service package with a 4 sqm booth space in the start-up area, a presentation slot on the start-up stage is also included.

Your Chance to Get Involved

Make your company and your innovations visible – as an exhibitor or sponsor

Benefit from:
- a high level of expertise on site
- a clearly focused target group
- direct access to OEMs, suppliers, and research

Would you like to be part? We are happy to discuss packages, space, and exhibits with you.

Jasmin Habel | Project Consultant Exhibition & Sponsoring
+49 211 6214-213 | jasmin.habel@vdi.de

Your Contacts

VDI Wissensforum

Participant Management & Information:
Customer Service Team
+49 211 6214-201
wissensforum@vdi.de

Simply book your participation online at eliv-congress.com.

Exhibition & Sponsoring
Jasmin Habel
+49 211 6214-213
jasmin.habel@vdi.de

Exhibition & Sponsoring
Martina Slominski
+49 211 6214-385
slominski@vdi.de

Press
Justine Otto
wf-presse@vdi.de

Program
Birgit Bremer
+49 211 6214-273
birgit.bremer@vdi.de

Organization
Verena Feger
+49 211 6214-244
feger@vdi.de

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SCIENTIFIC SUPPORT

VDI Society Automotive and Traffic Systems Technologies (FVT)

The VDI Society Automotive and Traffic Systems Technologies (FVT) with its five Technical Divisions offers a home for engineers from a wide range of disciplines in the fields of “road”, “rail”, “air” and “water” transport. Through active interplay with the working groups of the VDI Regional Associations, the students and young engineers as well as the other VDI Technical Societies, the VDI FVT is networked nationally and internationally with other cooperation partners. The stated task of the VDI FVT is to strengthen the perception of the engineering profession and to establish the VDI as a technical-scientific opinion leader in professional circles, politics and society. The aim here is to promote the interaction of the various mobility areas and to provide technical impetus, as well as to develop perspectives for cross-sectional topics relating to “People and Mobility” and “Means of Transports and Infrastructure.

More information: vdi.de/fvt

Registration

Regular Price
EUR 2,190.00 plus VAT

October 14-15, 2026
Baden-Baden, Germany

The following services are included:

- Access to Keynotes and Sessions of the ELIV and parallel Conference Mobile Machines Electronics
- Digital event documentation
- Event-App Access
- Beverages during breaks
- Lunch on both Congress Days
- Night of Electronics
- Visit of the exhibition, Start-up Area and special Start-up Program

Please register online at:
eliv-congress.com

Venue and Accommodation

Venue
Kongresshaus Baden-Baden
Augustaplatz 10
76530 Baden-Baden, Germany
kongresshaus.de/en

Accommodation
A limited number of rooms have been reserved for congress participants. Please visit vdiconference.com/eliv/participant-information for further information.

More Hotels close to the congress venue may be found via our HRS service.
vdi-wissensforum.de/hrs

ELIV – Electronics in Vehicles

+ 70 Exhibitors

+ 1,000 Congress participants

+ 100 Speakers

Why join ELIV

- High-level technical program with numerous in-depth expert presentations on current and future automotive electronics topics
- The world's largest congress for automotive electronics, software and applications
- One of the leading international platforms bringing together OEMs, suppliers, tech players and research institutions
- Unique opportunity to exchange knowledge, discuss trends and shape innovations in the automotive industry
- Extensive trade exhibition presenting the latest products, services and solutions
- Interactive formats such as panels, discussions and direct exchange with speakers
- Dedicated start-up area and innovation formats such as Lightning Talks
- Access to the parallel conference "E/E for Mobile Machines"

Who you will meet:

Decision-makers, engineers, developers and technical experts from OEMs, Tier 1 & 2 suppliers, technology companies, as well as representatives from business, science and research & development worldwide

Any more questions? Contact us!

Phone: +49 211 6214-201
Email: wissensforum@vdi.de
Web: eliv-congress.com

ELIV

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Baden-Baden,
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VDI-Platz 1 | 40468 Düsseldorf | **Phone** +49 211 6214-201

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