The World’s Largest Congress for Automotive Electronics, Software and Applications!

21st International Congress and Exhibition
October 18-19, 2023, Bonn, Germany

Top Speakers:
Kai Lars Barbehön, BMW
Dr. Frank Kindermann, NIO
Magnus Östberg, Mercedes-Benz
Mathias Pillin, Bosch
Igal Raichelgauz, Autobrains
Maria Uvarova, Stellantis
Dr.-Ing. Yankin Tanurhan, Synopsys
Dominik Wee, Microsoft
Dr. Rolf Zöller, Porsche & Porsche Digital

Main Topics:
- Open Source Software
- Software Technologies
- E/E-Architecture
- Automotive AI
- Automated Driving
- Security
- Electronics Technology
- E-Vehicle Mobility
- System Engineering and Processes

Congress Highlights:
- Automotive Trend Session: Open Source
- Panel Discussion: Transformation of Working Environment
- Parallel Conference E/E Commercial Vehicles
- Start-up Area and Special Start-up Program
- Extensive Exhibition
- Interactive Communication Points
- Meet with the Speakers
- Night of Electronics

Including up-to-date contributions from:

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The world’s largest congress for Automotive Electronics, Software and Applications!

ELIV – Program Overview

1st Congress Day
Wednesday, October 18, 2023

07:45 Registration

Plenary Speeches – New York (Ground Floor)
Moderation: Dr. Rolf Zöller, Porsche AG and Porsche Digital, Weissach

08:45 Opening of the Congress, Current Market Situation & Hour of Topical Interest
Dr. Rolf Zöller, Director E/E Smart Connected Vehicle Porsche AG and Managing Director Porsche Digital, Chairman of the Program Committee and Dr. Karl-Thomas Neumann, former CEO of Continental AG, Volkswagen China and Adam Opel GmbH, Founder & Owner

09:10 Transforming the Future of Mobility with the Power of AI and the Cloud
Dominik Wee, Corporate Vice President, Manufacturing & Mobility, Microsoft Corporation, Munich

09:40 MB.OS – Our Chip-to-Cloud Architecture for a Luxury Experience
Magnus Östberg, Chief Software Officer – Executive Vice President, Research & Development, Mercedes-Benz AG, Sindelfingen

10:10 Re-Thinking E/E Architecture Design – A More Comprehensive Approach to Solve Future Challenges
Dipl.-Ing. Kai Lars Barbehön, Vice President Central Control Units, Wire Harness, Power Supply, BMW Group, Munich

10:40 Coffee break, Exhibition and Start-up Area visit

11:25 Parallel Sessions

Session 1: New York (Ground Floor)
Software – Open Source
Moderation: Dipl.-Ing. Uwe Michael, mps, Rödermark

Automated Driving – Systems
Moderation: Dr. Torsten Wey, Ford, Cologne

Electronics Technology
Moderation: Ralf Lenninger, Former Continental, Regensburg

12:55 Lunch break, Exhibition and Start-up Area visit

14:25 Parallel Sessions

Software – Automotive Trend
Session – Open Source
Moderation: Dipl.-Inf. Elmar Frickenstein, Elstein Consulting & former BMW AG, Munich

Automated Driving – Sensors
Moderation: Jürgen Bortolazzi, Porsche AG, Weissach

Vehicle Architecture – Strategy
Moderation: Dr. Joachim Schlosser, Elektrobit Automotive GmbH, Munich

16:25 Coffee break, Exhibition and Start-up Area visit

17:10 Parallel Sessions

Software
Moderation: Kai-Uwe Balszuweit, BMW Group, Munich

Automotive AI – Innovations
Moderation: Joachim Langenwalter, Autobrains AI Technologies, Berlin

Vehicle Architecture – Aspects
Moderation: Dipl.-Ing. Stefan Teuchert, MAN Truck & Bus, Munich

18:40 End of the first Congress Day

19:00 Night of Electronics on the MS RheinEnergie
All participants are cordially invited. Discuss the results of the day with fellow experts and use your chance to network.

Register at: www.eliv-congress.com
# 2nd Congress Day
**Thursday, October 19, 2023**

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<th>Time</th>
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<th>Conference CV: Addis Abeba (Basement)</th>
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<td>08:30</td>
<td><strong>Software</strong></td>
<td><strong>Automotive AI – Applications</strong></td>
<td><strong>System Engineering and Processes</strong></td>
<td><strong>Security - Vulnerabilities</strong></td>
<td><strong>Propulsion</strong></td>
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<td><strong>Moderation:</strong> Dr. Riclef Schmidt-Clausen, CARIAD SE, Ingolstadt</td>
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<td><strong>Moderation:</strong> Dr. Thorsten Huck, Robert Bosch GmbH, Abstatt</td>
<td><strong>Moderation:</strong> Dipl.-Ing. Martin Schleicher, Continental, Erlangen</td>
<td><strong>Moderation:</strong> Dipl.-Ing. (FH) Stefan Riegl, MAN Truck &amp; Bus SE, Munich</td>
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<td>08:30</td>
<td><strong>08:30 Parallel Sessions</strong></td>
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<td><strong>NIO – Smart Electric Vehicles and Battery Swapping</strong></td>
<td>Dr. Frank Kindermann, Head of Battery System Europe, NIO GmbH, Munich</td>
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<td></td>
<td><strong>Building a Car while Driving it: Incremental Approach to Cockpit Software</strong></td>
<td>Maria Uvarova, PhD, Senior Vice President, Software Product Management, Stellantis, Munich</td>
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<td>08:45</td>
<td><strong>Panel Discussion:</strong> Transformation of working environment</td>
<td>Claudia Burger, Editor and Ken Fouhy, CEO/Editor in Chief, both of VDI Verlag GmbH/VDI Nachrichten, Düsseldorf</td>
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<td><strong>Software – Cloud &amp; Data</strong></td>
<td>Dipl.-Ing. Stefan Singer, Renesas Electronics, Munich</td>
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<td><strong>System Engineering and Processes</strong></td>
<td>Dipl.-Ing. Dieter Rödder, Robert Bosch, Stuttgart</td>
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<td>09:00</td>
<td><strong>Security – Challenges</strong></td>
<td>Dipl.-Ing. Henning Harbs, Volkswagen AG, Wolfsburg</td>
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<td><strong>Components, Subsystems &amp; Integration</strong></td>
<td>Dr. Falk Hecker, Knorr-Bremse Systeme fuer Nutzfahrzeuge GmbH, Schwieberdingen</td>
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<tr>
<td>09:15</td>
<td><strong>Plenary Speeches and Award Ceremony – New York (Ground Floor)</strong></td>
<td>Dr. Rolf Zöller, Porsche AG und Porsche Digital, Weissach</td>
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<td><strong>Liquid AI – Closing the Gaps toward Autonomous Driving</strong></td>
<td>Igal Raichelgauz, B. Sc., Founder &amp; CEO, Autobrains Technologies Ltd., Tel Aviv-Yafo, Israel</td>
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<td><strong>Semiconductors Are Driving Sensing and Thinking</strong></td>
<td>Dr.-Ing. Yankin Tanurhan, Senior Vice President of Engineering, Solutions Group, Synopsys, Inc., Sunnyvale, CA, USA</td>
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<td>10:00</td>
<td><strong>Conclusion and Discussion</strong></td>
<td>Members of the Program Committee</td>
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<td><strong>Award Ceremony “Auto Electronic Excellence Award 2023”, best Start-up and Closing of the Congress</strong></td>
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<td>10:15</td>
<td><strong>End of the Congress</strong></td>
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1st Congress Day

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07:45 Registration

Plenary Speeches – New York (Ground Floor)

Moderation: Dr. Rolf Zöller, Porsche AG und Porsche Digital, Weissach

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

Dr. Rolf Zöller, Director E/E Smart Connected Vehicle Porsche AG and Managing Director Porsche Digital, Chairman of the Program Committee and Dr. Karl-Thomas Neumann, former CEO of Continental AG, Volkswagen China and Adam Opel GmbH, Founder & Owner

09:10 Transforming the Future of Mobility with the Power of AI and the Cloud

· Unlocking new business models, increasing efficiencies, creating new monetization opportunities using the power of AI and cloud computing
· Accelerating innovation in the software-defined and autonomous vehicle space
· Opening up new opportunities with the industrial metaverse

Dominik Wee, Corporate Vice President, Manufacturing & Mobility, Microsoft Corporation, Munich

09:40 MB.OS – Our Chip-to-Cloud Architecture for a Luxury Experience

· Why designing an own architecture
· Mercedes-Benz Operating System – separation of software and hardware
· Global footprint and continuous integration
· Outlook – what’s next

Magnus Östberg, Chief Software Officer – Executive Vice President, Research & Development, Mercedes-Benz AG, Sindelfingen

10:10 Re-Thinking E/E Architecture Design – A More Comprehensive Approach to Solve Future Challenges

· Automotive E/E architectures are significantly shaped by the top trends of digitalization
· Today’s prevailing domain oriented E/E architectures result in hardly manageable functional interdependencies
· Zonal physical electrical power system architectures in combination with high-performance integration platforms will lead into the future
· Why and how BMW derives the central E/E infrastructure for the BMW NEW CLASS from a new, holistic E/E architecture approach

Dipl.-Ing. Kai Lars Barbehön, Vice President Central Control Units, Wire Harness, Power Supply, BMW Group, Munich

10:40 Coffee break, Exhibition and Start-up Area visit

Register at: www.eliv-congress.com

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· Use the "Offer" and "Search" function to find and contact other participants
· Meeting Arrangement: request appointments with other participants

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MathWorks
11:25 Why Open Source – A New Generation Perspective
- The role of Open Source in the field of web technologies
- Advantages of an organization using Open Source
- Active contributions are essential to leverage the full potential of Open Source
Patrick Böder, Senior Software Engineer and Open Source, Porsche Digital, Ludwigsburg

11:35 The Open Road Runs on Open Source
- Vision of software-defined vehicle requires accelerated pace of innovation
- Open source has been a driver of innovation in multiple industries
- Success factors: Open collaboration, cloud-native platform, functional safety certified base layer infrastructure
- Solution must cover entire vehicle life cycle
Francis Chow, VP & GM, In-vehicle Operating System and Edge, Red Hat, Inc., Sunnyvale, CA, USA

11:55 AUTOSAR Software Architecture – A Cornerstone for Software Defined Vehicles and the Future of Mobility
- Strategic Vision
- Cooperations with other consortia
- Vehicle API approach

Criticality Driven Data Acquisition in Autonomous Driving – A Basis for Completeness and Safety Argumentation
- Method developed in VVMethods
- Basis for ISO21448 SOTIF validation
- Efficient data acquisition in automated driving
Dipl.-Ing. (FH) Max Nestorius, Teamleader ADAS Systemdesign & Validation, Co-authors: Himanshu Walia, M. Sc., both of AVL Deutschland GmbH, Stuttgart, Dipl.-Ing. Thomas Guntenschnig, AVL List Gmbh, Graz, Austria

Estimation of Body Height, Weight, and Gender of Vehicle Occupants Using Machine Learning
- Deep Learning
- Vehicle Occupant Monitoring
- Feature Estimation
Patrick Laufer, M. Sc., Development Engineer, Vehicle Safety, IAV Fahrzeug sicherheit GmbH & Co. KG, Munich

A Holistic Approach for Designing a Battery Electric Vehicle Thermal Management System
- Virtual testing of entire vehicle in a single simulation environment
- Explore design space to refine component and system requirements
- Develop an electrothermal model of battery pack capturing individual cell behavior
- Assess impact of powertrain and cooling system designs on overall performance

Vehicle-to-Vehicle (V2V) Communication as Enabler for Improved Automated Driving Functions
- Connection to EU-funded project
- Description of the enabler
- Description of use case and its test and verification
Dipl.-Ing. (FH) Markus Kremer, System Architect ADAS/AD, FEV.io GmbH, Aachen

Active Noise Control: Helping Carmakers Design Better Cars
- Overview of Road Noise Control technology
- Vehicle Design Compromises-cost, mass, complexity, ride quality, noise quality
- Analysis of selected mechanical versus electronic noise control problems
- Summary of RNC advantages for carmakers
Dr. John Feng, Head of Active Sound Management, Automotive Division, Bose Corporation, Framingham, MA, USA

Safe and Efficient Regenerative Braking Strategies for Heavy BEVs
- Regenerative braking of heavy articulated vehicles
- Model based brake force limitation
- Wheel Slip Control
Leon Henderson, PhD, Function Developer, Vehicle Motion Management and Johan Hansson, M. Sc., Function Developer, Vehicle Technology, Co-authors: Daniel Möller, Maliheh Sadeghi Kati, all of Volvo GTT, Gothenburg, Sweden

Welcome to the Era of Logistics – Insights into Trends That Will Shape the Future
- Megatrends shaping the needs of societies and industries and the supply chains that serve them
- Navigating the future: The DHL Logistics Trends Radar - what it is, why it matters and how it supports innovation
- The DHL customer-centric innovation approach and ecosystem
- Use case examples, ideas for innovation and implementation leveraging technology as well as business & social trends
Dr. Klaus Dohrmann, Vice President, Head of Innovation & Trend Research, DHL, Troisdorf

Conference CV: Addis Abeba (Basement)

UNICA Ragil – Rethinking Architectures for Fully Automated and Driverless Vehicles
- Automated Driving
- E/E Architecture
- Service Oriented Software Architecture
- Technical Supervision and Cloud Connectivity
Timo Woopen, M. Sc., Manager, Research Area Vehicle Intelligence & Automated Driving, Alexandru Kampmann, M. Sc., Chair for Embedded Software, Co-authors: Raphael van Kempen, M. Sc., Univ.-Prof. Dr.-Ing. Lutz Eckstein, all of RWTH Aachen University
12:25
Accelerating Software Defined Vehicles through Open Source Software
- Advantages of open source software for software-defined vehicles
- Overview of Automotive Grade Linux, an open source platform supported by 150+ members
- Production use cases for open source-infotainment
Dan Cauchy, Executive Director of Automotive Grade Linux, The Linux Foundation, San Francisco, CA, USA

12:35
Overview funding projects in the context of Automotive Open Source
Prof. Dr.-Ing. Habil. Alois Knoll, Chair of Robotic, Artificial Intelligence and Embedded Systems, Technical University of Munich

12:35
Building an Open-Source Ecosystem for Software-defined Vehicles – The Good, The Bad, and the Ugly
- Perspective on Software-defined Vehicle from a non-automotive company
- Current state of Open Source Software
- Challenges of building an Open Source Ecosystem
- Eclipse Software-defined Vehicle: Overview & Current Status
- Success factors from a Microsoft perspective
Boris Engel, Program Director Automotive, Microsoft Deutschland GmbH, Munich

12:45
Using Radar + Vision Fusion for Improved Low-light Pedestrian Detection
- Combining vision and radar in difficult situations to securely detect pedestrians
- Overall architecture and distribution between edge and central compute for high compute efficiency
- Using multi-static radar operation for highest point cloud density
Dr. Peter Gulden, SVP of Radar Systems and Software, Co-author: Dr. Zorawar Bassi, both of indie Semiconductors

13:05
Scalable Plug & Play High-Performance Computer and Fluid Cooling Solutions
- Flexible and scalable High-Performance Computer concept for any vehicle architectures
- Innovative “plug & play” fluid cooling solution for zero gap heat transfer
- Flexible cooling pad allows a maximum of flexibility for OEMs
Dr.-Ing. Andreas Heise, Head of ADCU Technology, Principal Expert Mechatronic Technologies, Continental Autonomous Mobility Germany GmbH, Eschborn

13:15
How to Improve EV Battery Cell Quality
- Identify key challenges and industry trends for battery cell production
- Learn about cutting edge test and inspection techniques (EIS, ACIR, scientific machine learning)
- Get insights to optimize cell testing during production to improve yield, quality, and throughput
- Hear about today’s industry use cases such as the Battery Innovation Center
Davide Cotterle, Senior Application Engineer, Transportation Business Unit, NI (National Instruments), Munich

13:25
A Cloud-based Self-Learning Digital Twin Solution for Increasingly Accurate Range Prediction in Battery Electric Vehicles
- Data-driven function development
- Framework for self-learning data-driven digital twin model
- Load profile prediction based on destination forecast, vehicle resistance information and speed profile prediction
Dr.-Ing. Marius Wegener, Team Leader Controls, E-Mobility Systems, Co-authors: Dr.-Ing., Rene, Savelsberg, both of FEV Europe GmbH, Aachen, Lukas Schäfers, M. Sc., RWTH Aachen University

13:35
Twin Solution for Increasingly Accurate Range Prediction in Battery Electric Vehicles
- Accurate Range Prediction in Battery Electric Vehicles
- Current state of the art in range prediction
- Outlook on J1939 with CAN XL
Timo Schwendner, Solution Manager J1939, Productline Embedded Software and Systems, Co-author: Martin Schloeder, both of Vector Informatik GmbH, Stuttgart

13:45
Realizing J1939-22 in AUTOSAR – CAN FD and CAN XL
- Realizing J1939-22 in AUTOSAR
- Higher transmission rates with CAN FD (J1939-22)
- Usage of the Multi-PG concept
SAE J1939 in AUTOSAR – CAN FD and CAN XL

Register at: www.eliv-congress.com
14:55 Eclipse SDV: Chances and Challenges of Collaboration in the Open
- Collaboration on implementation
- The advantages of Open Source in the automotive industry
- Jointly building a platform with scale
- How Open Source can help to attract developers
**Michael Plagge**, Vice President Ecosystem Development, Eclipse Foundation AISBL, Brussels, Belgium

15:05 SOAFEE – A Cloud-Native Approach to the Development of Automotive Software
- Use of cloud-native tools and methodologies for automotive software
- Use of existing open standards extended for vehicle mixed-criticality systems
- Open source reference implementation for early development
- Commercial automotive software and hardware available for vehicle deployment
**Robert Day, B. Sc.**, Director, Automotive Marketing, Arm Inc, San José, CA, USA

15:25 Open Source Platform as a Catalyst for a Successful SW-Development and Integration in Automotive
- A mindset change is happening in recent years in terms of SW-integration, OEMs are integrating on SW Level
- “SW Integration Best of Breed” is an approach getting more and more relevance in automotive – in verticals and horizontals
- “Open source” is an important catalyst for this but should be implemented based on proven guiding principles
**Dr. Christian Salzmann**, VP of Software Strategy, -Factory, E/E and Platforms Tech-Cluster Driving, BMW Group, Munich

Automotive Radar Technology Innovations Power Next-gen ADAS and Autonomous Driving
- 28nm RF CMOS single-chip Radar integration
- High-resolution 4D Imaging Radar technology
- Next-generation vehicle architectures – enabling new Radar capabilities
**Matthias Feulner**, Senior Director Marketing, ADAS, NXP Semiconductors Germany GmbH, Munich

Strategically Migrating, Mapping and Scaling Software to New SoC, Domain & Zone Architectures and HPC
- Timing, Performance and Event Chains
- Mapping & software to new hardware
- Exploring architecture variants
**Dr. Ralf Münzenberger**, CEO, Co-author: Olaf Schmidt, both of INCHRON AG, Erlangen

Power Electronic System Technology for Future High-Power Charging Systems on Highways or Large Inner-City Electric Charging Stations with Several MVA System Size
- System Topology
- Power Electronics
- Design
- Measurement Results
**Dipl.-Ing. Andreas Hensel**, Head of Group, Power Electronics and Grids, Co-author: Dipl.-Ing. David Derix, both of Fraunhofer ISE, Freiburg

Event-Chain-Focused Development of System Architectures Makes Complex Systems Manageable
- End-to-end validation of real-time requirements in vehicle systems
- Event chain analysis for higher-level timing requirements
- Early error detection improves project planning security
- Development productivity can be significantly increased
**Dipl.-Ing. Ferry Kraft**, Function Architect, R&D Electric/Electronic, MAN Truck & Bus SE, Munich and **Dipl.-Ing. Florian Mayer**, Project Manager, Professional Services, Co-authors: Jan Apelt, Dr.-Ing. Ralf Münzenberger, all of INCHRON AG, Erlangen, Christian Winkler, MAN Truck & Bus SE, Munich

Combining SD Maps and ADAS Perception for Advanced Augmented Reality Guidance
- Overall In-car Augmented Reality Architecture
- Using Navigation and ADAS Perception input for Augmented Reality
- Situation Analysis
- 3D Scene Creation
**Dr. Martin Pfeifle**, CTO, NNG Kft., Budapest, Hungary, Co-authors: Prof. Dr.-Ing. Niclas Zeller, Hochschule Karlsruhe, Dr. Andreas vom Felde, StradVision, Munich

Towards the Next Step in Vehicle E/E Architectures
- Path towards future software-defined vehicle E/E architectures
- Technology enablers such as cross-domain integration platforms
- Focus on cost-efficient and salable solutions shaping future E/E designs
**Dr. Thorsten Huck**, Vice President Competence Center E/E Architectures, Co-author: Dr. Andreas Achtzehn, both of Robert Bosch GmbH, Abstatt

How Data-Driven Approaches Enhance Agile and Quality-Assured Software Development for Automated Driving
- Data collection and management
- Data virtualization for digital twin creation
- Different Use-Cases for Data-Driven Software Development
- Processes/Methods/Tools Enabling Agile and Quality-Assured Software Development
1:10 What It Really Takes to Empower Autonomous Vehicles (AV) at Scale
- Data at scale for hybrid cloud infrastructures for smart AD data logging and processing
- Linear scalability of performance with optimized costs
- Lower cost of infrastructure from edge to cloud, by avoiding the need to store the data across multiple locations
- Based on open source and secure standards to maintain a single source of truth
- Data management and data orchestration, scalable based on the containerized applications

Dipl.-Ing. Frank Kraemer, System Architect, Technical Presales, IBM, Frankfurt am Main
Christian Salzmann, BMW

16:25 Coffee break, Exhibition and Start-up Area visit

15:55 Panel Discussion on "Open source"
Moderation: Elmar Frickenstein, Ei-stein Consulting & former BMW AG
Panelists:
Francis Chow, Red Hat
Michael Plagge, Eclipse
Boris Engel, Microsoft
Robert Day, Arm
Christian Salzmann, BMW

Development and Testing Autonomous Vehicles (AV) at Scale
- Data at scale for hybrid cloud infrastructures for smart AD data logging and processing
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Dipl.-Ing. Frank Kraemer, System Architect, Technical Presales, IBM, Frankfurt am Main
Christian Salzmann, BMW

Mastering Complexity in Modern Vehicle Software Updates
- Software dependency model as interface between engineering and after sales
- Unifying over-the-air-updates and workshop operations
- Tracing software updates for UNECE SUMS
- Detecting and handling invalid vehicle states
Dr. rer. nat. Oliver Meyer, Head of Department, System Development Lifecycle Management & After Sales, Co-author: Dr. rer. nat. Boris Böhlen, both of DSA Daten- und Systemtechnik GmbH, Aachen

Multi-Level GaN Inverter – Development of HV Solutions for Highest EV Performance and Efficiency
- Benefits include higher voltages, reduced harmonic losses, and improved NVH characteristics and EMC behavior
- GaN components show additional superior influence on systems over traditional silicon applications
- New ways to improve e-motor efficiency and reduce losses in the WLTP drive cycle by 25 %
Lukas Roslaniec, PhD, Department Leader & Engineer, Power Electronics, Co-author: Thomas Hackl, both of hofer powertrain, Nürtingen

Software
Moderation: Kai-Uwe Balszuweit, BMW Group, Munich

17:10 What It Really Takes to Empower Software Defined Vehicles
- The industry’s journey to bring truly software defined vehicles at scale to the roads
- Key levers: decoupling hardware and software at decisive points in the vehicle architecture, data-driven development and operations, scalable service architectures
- Tangible contributions a software-driven Tier 1 can bring to the industry

Dr. Mathias Pllin, Member of the Business Sector Board Bosch Mobility Solutions, Head of Mobility Technology, Gerlingen

Automotive AI – Innovations
Moderation: Joachim Langenwalter, Autobrains AI Technologies, Berlin

How to Become a Leader By Development of AI: ChatGPT Research Papers Analyzed
- AI can facilitate fascinating things.
- The development methodology from ChatGPT reveals important learnings about successful AI development
- These learnings can be well transferred to automotive use cases
- If the learnings are followed, automotive can be successful with AI

Dr. Ulrich Bodenhausen, Manager Consulting, Product Group Consulting, Vector Consulting Services GmbH, Stuttgart

Continuous System Architecture Development for Automated Driving Features
- Agile development processes and methods applied to Model-based Systems Engineering
- Continuous, parallelized system architecture development with SysML and CI/CD
- Toolchain to automate model quality assurance, configuration and integration
Anuj Malvankar, M. Sc., Team Leader, Systems Engineering Processes, Co-authors: Stephan Riediger, Vijay Konenki, all of FEV GmbH, Aachen

Connectivity
Moderation: Dipl.-Ing. Stefan Teuchert, MAN Truck & Bus, Munich

Achieving Ubiquitous Connectivity for Future Vehicles
- In-vehicle 5G mmWAVE helps to solve the capacity issue for V2N & V2X
- Non-terrestrial-networks (NTN) complement the cellular terrestrial-networks (TN) to close the existing coverage gap, starting with 5G Rel. 17, further enhancements in 5G advanced and towards 6G
- The digital in-vehicle connectivity architecture supports the integration of 5G mmWAVE and e.g. Satellite Broadband Communication
Dipl.-Ing. Thomas Hinzmann, Lead Technologist, Strategy & Innovation, Connected Mobility Solutions, Co-author: Dipl.-Ing. Dietmar Schnepf, both of Molex CVS Bochum GmbH, Bochum

Unlocking the Power of Automated Driving Technology Today
- How autonomy will transform the trucking industry
- Market opportunity for highly automated driving (HAD) products
- Plus’s unique approach to empowering driver-in and fully autonomous solutions via Open Autonomy Platform
- Plus’s case study of building and commercializing high-performance modular autonomous driving software solutions that are affordable and scalable across vehicle types and applications
Sun-Mi Choi, MBA, VP of Business Development, Plus, Santa Clara, CA, USA

Register at: www.eliv-congress.com
17:40 The Digital, Connected, Software-Driven Future of Automotive

- Digital transformation of automotive driven by electrification, autonomy
- Changing vehicle architectures as cars become increasingly software-defined
- Smart, connected cars of the future require new digital technology like cloud connected services, advanced driver assistance systems, and customized in-vehicle infotainment
- AI and wireless technologies will support evolving transportation trends

Thomas Dannemann, Senior Director Product Marketing, Qualcomm CDMA Technologies GmbH, Munich

Seeing with Sound: AI-Based Detection of Participants in the Automotive Environment from Passive Audio

- Using passive sound field to extend ADAS capability
- Overcoming challenges with AI
- Practical system architecture on limited automotive MCUs
- Performance in live testing

Jeffrey Siracki, PhD, Director of AI Engineering, AloT Center of Excellence, Co-authors: Rui Yang, Matthew Caggiano, all of Renesas Electronics, Columbia, MD, USA

Electronics Hardware Platform for a Software Defined Future

- Moving from distributed to central computing capabilities
- New Stellantis HW Tech Platforms – project scope and highlights
- Collaboration Model with partners and suppliers

Leandro Lara, MBA, Vice President – HW Engineering & EE Architecture, Stellantis, Vélizy-Villacoublay, France

Cooperative Perception Services to Improve the Safety of Road Users

- Radar detection range extension via V2X
- Cooperative blind spot detection
- Non-line-of-sight perception

Dr. rer. nat. Patrick Friedel, Advanced Engineering Program Manager, Advanced Engineering Electronics, Co-authors: Shan Danfeng, Kamill Eliasch, all of HELLA GmbH & Co. KGaA, Lippstadt/Nanjing, China

18:10 Maintaining Open-Source Based Software or What Is the True Cost of Free?

- Regulations like UNECE R 156 and ISO/SAE 21434 mandating long periods of fixes and updates
- Need for car manufacturers to take a proactive approach to software maintenance and support
- Problems and possible solutions associated with open-source components and platforms in the automotive industry

Dr. Joachim Schlosser, Senior Manager, Strategic Consulting, Co-author: Jens Petersohn, both of Elektrobit Automotive GmbH, Munich

How Can AI Reduce Automotive Software Development Costs by 30%?

- Enabling root cause analysis for integration validation
- Identification of high probability testing focus
- Enabling continuous and seamless OTA updates at 10% of the cost
- Evidence of effects to regulated systems from software updates in accordance with UNECE WP.29 (R156)
- Pre-error detection of software function deviations, on the road

Zohar Fox, CEO and Co-founder, Management, Aurora Labs, Tel Aviv, Israel

New E/E Architecture

- Current situation and challenges of the E/E Architecture
- Trends in the E/E Architecture

Dipl.-Inform. Yves Duhr, Central E/E Architect, MB.OS Architecture, Mercedes-Benz AG, Sindelfingen


- Introduction into the field of automotive Service Robots (ASR)
- Trade-Off of modern R2X and V2X communication interfaces
- Requirements and resulting adaptations for V2ASR communication for a specific ASR use case
- Detailed explanation of a universal vehicle communication interface (UVCI) model

Lukas Heinrich, M. Sc., Industrial PhD Candidate, Robotics, Group Innovation, Co-authors: Malte Springer, M. Sc., both of Volkswagen AG, Wolfsburg, Prof. Dr. Jürgen Pannek, TU Braunschweig

Automated Trucking: Vision, Current State, and Challenges

- Safe Autonomous driving
- Daimler Truck dual partnership strategy
- Development Strategy Torc Robotics for Autonomous Trucks
- Challenge of releasing an autonomous truck

PhD Axel Gern, Managing Director, Development, Torc Europe GmbH, Stuttgart

Key Factors of a robust and safe Automated Driving Function – Transferable Insights of City-Bus Platooning in Munich

- System performance – Required upgrade of the electronic architecture
- Redundancy for operational reliability and safety
- Methods for a well-structured development and test phase
- Application example: Analysing the platooning of EBUSCO 3.0 12m city-buses

Nicole Kechler, M. Sc., Member of Scientific Staff, R&D, Karlsruhe Institute of Technology (KIT), Co-authors: Niranjana Venkatesh, M. Sc., Ebusco, Deurne, The Netherlands, Prof. Dr.-Ing. Eric Sax, Institut fuer Technik der Informationsverarbeitung (ITIV) – Karlsruhe Institute of Technology (KIT)
10:00 A Unified Middleware for SoC-Agnostic Application Development
- Production-ready middleware based on open source
- Unified application framework for microcontrollers, microprocessors and hardware accelerators
- Relocation of applications with minimum effort
  
Dipl.-Ing. (FH) Stefan Duda, Vice President Product, Co-author: Laurent Emmrich, both of Apex.AI GmbH, Munich

10:15 Generative AI – How AI Models Change the Way We Develop Automotive Products
- Generative AI can help us develop better products and is a key enabler for self-supervised learning
- From design and prototyping to quality control and user experience
- Optimization of products, material usage and final performance
  
Dr.-Ing. Pia Dreiseitel, Growth Field Manager AI Technologies, Research and Advanced Engineering, Co-author: Dr. Dilara Yesilbas, both of Continental Automotive Technologies GmbH, Frankfurt am Main/Regensburg

10:30 An Approach to Digital Lifecycle Management as a Service
- New customer experience by modulating the automotive ecosystem
- Strategic development and control of software updates for new user experiences in automotive industry
- Software updates as new approach to create customer value
  
Dipl.-Inf. Henry Bastian, Product Manager DLCM Control Center, Digital Lifecycle Management, Co-authors: Dipl.-Ing. Benjamin Baron, Dr. Frank Althoff, all of CARIAD SE, Wolfsburg

10:45 New Standards and Best Practices to Mitigate Supply Chain Security Risks of Software-Driven Products
- Insights into new standards regarding supply chain security risks
- Insights on how these standards influence software driven products in automotive industry
- Sharing best practices how to mitigate risks in this context
  

10:50 Automotive Software Vulnerabilities: Strategies for Early Detection, Mitigation, and Prevention in the Software-Development-Lifecycle
- Root causes of automotive software vulnerabilities
- Most common weaknesses of automotive software vulnerabilities
- Testing methodologies for detecting vulnerabilities
- Preventing most vulnerabilities during development
  
Dr.-Ing. Andreas Weichslgartner, Senior Technical Security Engineer, Architecture, Security & Technologies, CARIAD SE, Nuremberg
10:00 NIO – Smart Electric Vehicles and Battery Swapping – Smart EVs: Next Generation of BEV
- Battery Swapping: fully recharged within less than 5 minutes
- User Centric: aiming for the highest User satisfaction
- Driven by Design: a premium car
- Dr. Frank Kindermann, Head of Battery System Europe, NIO GmbH, Munich

10:30 Building a Car while Driving it: Incremental Approach to Cockpit Software
- Over-the-air updates permit automotive manufacturers to review their approach to building software
- Customer-first principles in designing cockpit software
- Embedded data analytics and AI as main tools to continuously improve customer experience
- Maria Uvarova, PhD, Senior Vice President, Software Product Management, Stellantis, Munich

11:00 Coffee break, Exhibition and Start-up Area visit

11:45 A Leap in Innovation? – What European OEMs Can Learn from Chinese OEMs in Terms of User Experience
- History of Chinese OEM brands and their arrival on the European market
- Development and latest advances of Chinese vehicles
- What European OEMs can learn from their Chinese counterparts and how Chinese OEMs can succeed in Europe
- Audrey Matarage, Independent consultant, Audrey Matarage Consulting, Stuttgart

Validated Algorithms for Humanoid Robots: An Example of Neural Networks: DNN-Based Object Detection
- Use-case study and hands-on experience of AI validation
- Extend Explainable AI to complex architectures such as an Object Detector
- A two-stage approach for AI validation and interpretation
- Dr. Ing. Xin Xing Wang, Team Manager Systems and Sensors Validation, Electronics & Virtual Testing Solutions, Bertrandt Group, subsidiary Ingolstadt and Dr. Khanilag Chung, Product Owner AI Testing, Vector Informatik GmbH, Karlsruhe

Master Algorithm for Event-based Co-Simulation with FMI 3.0 for Timing Accurate Software-in-the-Loop
- Master Algorithm for discrete event driven co-simulation
- Simulation of FMI 3.0 FMUs with Event mode
- Clock Based synchronization of FMUs at events
- Timing Accurate Software-in-the-loop
- Mythreya Vinnakota, Researcher, Regional Digital Technologies, Bosch Global Software Technologies PVT LTD, Bengaluru, India, Co-authors: Dr. Oliver Kotte, Dr. Laura Beermann, Robert Bosch GmbH, Renningen

12:00 Panel Discussion
- Challenges in the Synchronous Development of Software, Hardware and Mechanics for Drive Systems
- Challenges due to different development processes of software, hardware and mechanics
- New holistic development process based on systems engineering
- Future possibilities using Big Data, AI and virtual development methods
- Dr.-Ing. Peter Fietkau, Manager Drive System Electronics, Systems Engineering, Co-author: Laetitia Diebold, both of Dr. Ing. h.c. F. Porsche AG
- Why Trusted Execution Environments are Critical for Automotive Security
- Introduction to Trusted Execution Environments
- Common Automotive Use Cases
- Future Use Cases to support Software Defined Vehicles
- Richard Hayton, Chief Strategy and Innovation Officer, Trustonic Limited, Cambridge, United Kingdom

Security – Challenges
- Moderation: Dipl.-Ing. Henning Harbs, Volkswagen AG, Wolfsburg
- Security aware automotive development
- Automotive Cyber Security
- ECU Zero-day vulnerabilities
- Security aware automotive development
- Prof. Dr. Rahamatullah Khondoker, Senior Cyber Security Consultant, Co-authors: Itay Lidovski, Amit Geynis, all of Argus Cyber Security, Boeblingen/Ramat-Gan, Israel

12:15 Lunch break

AWARD project
- Project presentation
- Hub to hub use case
- Forklift use case
- Port use case

Julien Collier, M. Sc., Project Manager, System, Easy Mile, Toulouse, France

Components, Subsystems & Integration
- Moderation: Dr. Falk Hecker, Knorr-Bremse Systeme fuer Nutzfahrzeuge GmbH, Schwieberdingen
- Modular High-Power-DCDC-Platform for FC-Applications – The sixth Generation Bidirectional DCDC
- A challenge accepted: steady state and highly dynamic operation at the same time
- Modular approach for scalability and cost-efficiency
- Flexible design for a wide range of application and markets
- Dr.-Ing. Bernhard Budaker, Vice President, Product Division PE, BRUSA HyPower AG, Buchs, Switzerland

Modular Software – Cloud & Data
- Moderation: Dipl.-Ing. Stefan Singer, Renesas Electronics, Munich
- Sustainable Software Development for Cloud-Native Vehicles
- Standardization of Vehicle APIs across the Automotive Industry
- Creating open Eco Systems like Machine, Devices, Applications and DevOps
- Defining the next generation of Cloud Applications and Scenarios
- Dipl.-Ing. (FH) Martin Bornemann, Vice President, Advanced Technology & Architecture, CTO Office, Co-author: Florian Baumann, both of Aptiv Services Deutschland GmbH, Wuppertal

System Engineering and Processes
- Moderation: Dr.-Ing. Dieter Rödder, Robert Bosch, Stuttgart
- Challenges in the Synchronous Development of Software, Hardware and Mechanics for Drive Systems
- Challenges due to different development processes of software, hardware and mechanics
- New holistic development process based on systems engineering
- Future possibilities using Big Data, AI and virtual development methods
- Dr.-Ing. Peter Fietkau, Manager Drive System Electronics, Systems Engineering, Co-author: Laetitia Diebold, both of Dr. Ing. h.c. F. Porsche AG
12:15 Panel Discussion: Transformation of Working Environment

Panelists:
- Rui Cordeiro, M. Sc, CEO, Critical TechWorks, Porto, Portugal
- Sebastian Dörner, Software Engineering Community Advocate, People & Culture, Porsche Digital GmbH, Ludwigsburg
- Andreas Heim, VP of Design, Process and Technology Engineering, Automotive Business Group, Flex, Stuttgart
- Joe Justice, Chair of the Board of Directors, Agile Business Institute, Tokyo, Japan
- Joachim Langenwalter, Senior Vice President Autonomous Driving, Autobrains AI Technologies GmbH, Berlin

Moderation: Claudia Burger, Editor and Ken Fouhy, CEO/Editor in Chief, both of VDI Verlag GmbH/VDI nachrichten, Düsseldorf

12:45 Rust for Automotive: A Modern, Memory-Safe and Secure Programming Language
- Rust programming language on the rise for automotive and industrial applications
- Rust for embedded applications
- Rust compiler support for Infineon AURIX: Challenges, solution & benefits

Dipl.-Ing. Mario Cupelli, CTO, HighTec EDV-Systeme GmbH, Saarbrücken

A Review of using Artificial Intelligence in Large Projects for Requirements Classification
- Distributing requirements in large projects to ~30 teams
- Using state-of-the-art transformer AI models
- Review of EU regulations and Bosch principles using AI for this purpose

Dr.-Ing. Lutz Trautmann, Group leader for SW and System Architecture and Requirements Management, Cross-Domain Computing Solutions, Robert Bosch GmbH, Hildesheim, Co-authors: Hamza Ghezali, Technical University of Clausthal, Steffen Wiltke, Robert Bosch GmbH, Hildesheim, Prof. Dr. Steffen Herbold, all of University of Passau

Software Defined Vehicle: Combining Real-Time Safety Critical Functions with Cloud Connectivity
- The importance of the right choice of RTOS and middleware for Software Defined Vehicles
- Possible ways of consolidating vehicle safety critical and cloud connected applications
- Managing complexity and performance in a heterogeneous software architecture
- Outlook on central computer architectures and cloud native automotive development

Nikola Velinov, Senior Business Development Engineer, Green Hills Software LLC, Santa Barbara, CA, USA and Sreeja KS, Senior Architect, Transportation Business Unit, Co-author: Jyotsana Singh, both of Tata Elxsi Ltd., Trivandrum/Bangalore, India

Addressing the Challenge of ‘Integrating Everything’ – Creating a Blueprint for Automotive Integrated Development
- Integrate standards, regulations, and different domains
- Holistic approach how to master complexity
- To manage work product and manage maturity
- Challenges of integrating “everything”

Christian Hübischer, Principal Consultant Kugler Maag Cie GmbH by UL Solutions, Kornwestheim

Distributed Development along the Automotive Supply Chain: 8 Insightful Recommendations for OEMs and Suppliers to Jointly Implement Cybersecurity
- Cybersecurity as a new quality dimension in distributed development in the automotive industry
- Success factors for cybersecurity on the side of the OEM and for Tier-N-Suppliers
- Requirements for compliance with UN Regulation No 155 and application of ISO/SAE 21434
- Best practices and reliable tips for collaboration in cybersecurity challenges: Cybersecurity management/ Cybersecurity engineering

Manuel Sandler, Partner, Consulting, CYRES Consulting Services GmbH, Munich

The Challenges to Move to Fail-Safe Operation in E/E Architecture
- Specific challenges regarding fault-tolerant power-net architectures in commercial vehicles
- Comparison with redundancies in already existing systems in commercial vehicles (in particular brake systems) and in aviation
- Concept of a fail tolerant, ASIL capable and modular power-net architecture for commercial vehicles

David Kiss, Product Owner, R&D, Knorr-Bremse SfN GmbH, Budapest, Hungary

Enabling a Software Platform for Faster-feature Deployment in Next-generation Commercial Vehicles
- How to migrate existing functions to HPC environments
- How to increase significant reuse of existing legacy software and systems
- How to create hybrid functions that include service and signal driven designs
- How to speed-up integration activities for such functions

Dr. Nico Hartmann, CTO, Qorix, Munich

Where is Everybody? Looking for Remote Attacks on Cars in the Wild
- Honeypot application in the automotive domain
- Systems that an automotive honeypot should mimic
- Existing open-source tools that can be used to build an automotive honeypot

Nicolas Ig, M. Sc, PhD Student, Corporate Research – Reliable Distributed Systems, Co-authors: Dr. Paul Duplys, Dr. Dominik Sisejovic, all of Robert Bosch GmbH, Renningen/ Ludwigswasburg/Hildesheim

13:15 Lunch break, Exhibition and Start-up Area visit

Register at: www.eliv-congress.com
Plenary Speeches and Award Ceremony – New York (Ground Floor)

Moderation: Dr. Rolf Zöller, Porsche AG und Porsche Digital, Weissach

14:30 Liquid AI – Closing the Gaps toward Autonomous Driving
   - Hitting the supervised learning wall - today’s AD road-blockers
   - Technology solutions for cost efficient AD
   - Liquid AI: A technical deep dive
   - Autobrains’ vision for a safe transition to AD

Igal Raichelgauz, B. Sc., Founder & CEO, Autobrains Technologies Ltd., Tel Aviv-Yafo, Israel

15:00 Semiconductors Are Driving Sensing and Thinking
   - Impact semiconductor chips and software have had on our world
   - Macrotrends driving these innovations
   - Resulting discontinuities that must be overcome
   - A new world where semiconductors drive sensing and thinking across many applications is within reach

Dr.-Ing. Yankin Tanurhan, Senior Vice President of Engineering, Solutions Group, Synopsys, Inc., Sunnyvale, CA, USA

15:30 Conclusion and Discussion
   Management Summary of the Sessions: The most important take-aways presented by members of the Program Committee

16:00 Award Ceremony “Auto Electronic Excellence Award 2023” and best Start-up

16:15 End of the Congress
Exhibition & Sponsorship

List of Exhibitors (September 19, 2023)

3D Mapping Solutions GmbH
Ailantus GmbH
ANavS Sensor Technologies GmbH
Apex.AI GmbH
APL Automobil-Prüftechnik Landau GmbH
Argus Cyber Security Ltd.
ARM Limited
Aurora Labs
Avelabs
AVL List GmbH
Bertrandt AG
Brose Fahrzeugteile SE & CO. KG, Bamberg
Cadence Design Systems GmbH
Capgemini Engineering
Cerity GmbH
Continental Engineering Services GmbH
CTAG
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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.

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To apply, request the registration documents for the Start-up Area. We are happy to provide assistance and further information:

Jasmin Habel
Project Consultant
Exhibition & Sponsorship
Phone: +49 211 6214-213
Mail: jasmin.habel@vdi.de

You will find the program and more information on our start up area on:

See who is already participating in the start-up area:

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If you are interested, get in touch with:
Martina Slominski
Team Leader Exhibition & Sponsorship
Phone: +49 211 6214-235
E-Mail: slominski@vdi.de
Program Start-ups

Moderation: Meike Neitz

Wednesday, 18 October 2023

13:40 Building the future of Autonomous Mobility a reality with SingleChip LiDARs
Oli Ramoli, B. A., Scantinel

14:00 Spatial AI als Alternative zu LiDAR
Sven Fülster, M. Sc., DeepSafety

14:20 Metamaterials Meet Mobility: Redefining Automotive Lidar
Dr. Sam Heidari, PhD, Lumotive

14:40 Precise Positioning, Mapping and Environment Detection with the Integrated Sensor Platform
Dr.-Ing. Patrick Henkel, ANavS Sensor Technologies GmbH

15:00 Super fast Vehicle Function Programming in Rust – from rapid prototyping to production with the same code
Dr.-Ing. Stefan Nürnberg, Elexir

15:20 GenAI-Based Business Process Automation
Dr.-Ing. Max von Groll, Ailantus GmbH

15:40 Revolutionising technical compliance: Unleashing the Power of Regulatory Data with an innovative Technical Compliance Software
Nico Wägerle, LL. M., Certivity

16:00 Driving Security: Leveraging Digital Twins for Firmware Emulation in Automotive Cyber Security
Dipl.-Ing. Mario-Valentin Trompeter, CyberDanube

16:20 Automated Product Cybersecurity and Compliance
Jan C. Wendenburg, Onekey

16:40 Safeguarding Against Software-Induced Failures: Fault Injection Testing in Automotive Systems
Shaleen Sharma, MBA, S2 Technologies

17:00 Unlocking Efficiency and Precision: Leveraging Static Source Code Analysis in Automotive Software Development
Dipl.-Inform. Michael Rückauer, Emmtrix

Thursday, 19 October 2023

11:00 Can we establish a highly efficient and highly scalable software platform for the Automotive industry
Dipl.-Ing. Christian Renner, RealThings

11:20 How to release software automatically in high-regulated industries like automotive, banking
Dr. Christoph Peters, grow platform GmbH

11:40 What annoys you every day with an electric car?
Armin Hager, Voitas

12:00 Solving the challenges with deploying DL on SoCs
Peter Kristiansen, M. Sc., Embedl

12:20 Safety Critical System (ADAS L2+ ) – Middleware running Trailer Hitch Assist feature
Sandeep Sharma, Jangoo

12:40 Matchmaking with ZIGY platform
Gyula Szathmary, MBA, ZIGY CONSULTING

13:00 Automotive Security: Protecting embedded software from malicious attacks and IP theft
Andreas Thull, M. Sc., Emproof

16:00 Best Start-up Award – Room: New York
Vote for the best start-up at ELIV!
“The Best Start-Up” award ceremony will take place at the end of the second congress day.
Brose is the fourth-largest family-owned automotive supplier. Every second new car worldwide is equipped with at least one Brose product. The company’s intelligent solutions for vehicle access and interiors provide greater comfort and flexibility. Innovative concepts for thermal management increase efficiency and contribute to environmental and climate protection. Brose’s systems understanding enables new functions in all kinds of vehicles – whether on four or two wheels. Including the joint venture Brose Sitech, the company employs 30,000 people at around 70 locations in 25 countries.

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Christoph Maag, Vice President Electronics Brose Group
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Phone: +49 951 7474 4744 | Fax: +49 951 7474 1767
E-Mail: christoph.maag@brose.com
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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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Contact: KPIT Technologies GmbH
Frankfurter Ring 105b
80807 Munich
Web: www.kpit.com

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Members of the Program Committee

Kai-Uwe Balszuweit, Vice President Quality Management E/E Systems, BMW Group, Munich

Jan Becker, CEO, Apex.AI, Inc., Palo Alto, CA, USA

Dipl.-Ing. Harald Deiss, Vice President Electronic Systems, ZF Friedrichshafen AG, Auerbach

Dipl.-Inf. Elmar Frickenstein, Elstein Consulting & former BMW AG, Munich

Steffen Glemser, Senior Director Electronic Systems, ZF Friedrichshafen AG, Auerbach

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Dipl.-Ing. Martin Schleicher, Head of Software Strategy, Continental AG, Erlangen

Joachim Langenwalter, Senior Vice President Autonomous Driving, Autobrains AI Technologies GmbH, Berlin

Ralf Lenninger, former Continental AG, Regensburg

Dipl.-Ing. Uwe Michael, mps, Rödermark

Dr.-Ing. Christof Kellerwessel, former Ford-Werke GmbH, Cologne

Dipl.-Ing. Stefan Singer, Senior Director E/E Architecture Strategies, Renesas Electronics, Munich

Dr. Riclef Schmidt-Clausen, Senior Vice President Intelligent Cockpit & Body, CARIAD SE, Ingolstadt

Dr. Jutta Schneider, Director Vehicle Powernet and EE Hardware, Mercedes-Benz AG, Sindelfingen

Dipl.-Ing. Stefan Teuchert, President and CEO E/E Function Development, MAN Truck & Bus SE, Munich

Dr.-Ing. Michael Winkler, CEO, HELLA Fahrzeugkomponenten GmbH, Bremen

Joachim Ziethen, Member of the Executive Board BU Electronics – Product Center Body/Lighting Electronics, HELLA GmbH & Co. KGaA, Lippstadt

Dr. Rolf Zöller, Director Smart Connected Vehicle Porsche AG and Managing Director Porsche Digital, Weissach (Chair)

Scientific Support

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.

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automotive
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- Reach out to long-known fellow experts, find new project partners and pave the way to establish new business ties
- Free entrance to the parallel running “E/E in Commercial Vehicles”
- Speakers corners – debate with the presenters personally
- Great trade exhibition with about 100 international exhibitors gives an overview of new products and solutions

Who you will meet:

Delegate groups: decision-makers, engineers, technicians, developers etc. from the field of industry (OEM, Tier 1+2), economy, research & development

- 24% Car Manufacturers
- 28% Tier 1/Tier 2 – Automotive suppliers
- 17% Software Providers
- 7% Hardware Providers
- 6% Electronics
- 10% Mobile Communications
- 8% Cities, Fleet, Infrastructure
Free entrance to the parallel running "E/E in Commercial Vehicles"

Speakers corners – debate with the presenters personally

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The ELIV (Electronics in Vehicles) congress is an exceptional event that brings together top industry professionals and experts in the field of automotive electronics. It offers a unique combination of strategic keynote presentations and an unparalleled technical program, making it a perfect platform for both technical executives seeking insights into industry trends and engineers involved in research and development looking to acquire the latest technical know-how.

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The following services are included:

- Access to Keynotes and Sessions of the ELIV and parallel Conference E/E Commercial Vehicles
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- Lunch on both Congress Days
- Night of Electronics on the MS RheinEnergie
- Visit of the exhibition, Start-up Area and special Start-up Program

Venue

World Conference Center Bonn
Platz der Vereinten Nationen 2
53113 Bonn
Germany

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A limited number of rooms have been reserved for congress participants. Please visit www.eliv-congress.com for further information.

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Any more questions? Contact us!
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