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

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

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

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

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

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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 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
Dominik Wee, Corporate Vice President – Manufacturing & Mobility, Sales, Business Strategy & Development, Microsoft Corporation, Munich

09:40 NIO – Smart Electric Vehicles and Battery Swapping
Dr. Frank Kindermann, Head of Battery System Europe, NIO GmbH, Munich

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

E-Vehicle Mobility – System
Moderation: Dr.-Ing. Dieter Rödder, Robert Bosch, Stuttgart

Future of Transportation
Moderation: Jörg Lützner, Continental Automotive GmbH, Schwalbach

Session 2: Nairobi (Ground Floor)
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

E-Vehicle architecture – Strategy
Moderation: Dr. Jutta Schneider, Mercedes-Benz, Sindelfingen

E-Vehicle Mobility – Components
Moderation: Dipl.-Ing. Christof Kellerwessel, former Ford, Cologne

Architecture & Software

Session 3: Wien (Ground Floor)
Software
Moderation: Kai-Uwe Balszuweit, BMW Group, Munich

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

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

Connectivity
Moderation: Dr.-Ing. Michael Winkler, HELLA Fahrzeugkomponenten, Bremen

Autonomous Driving

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

14:25 Parallel Sessions

Session 4: Bangkok (Basement)
E-Vehicle Mobility – System
Moderation: Dr.-Ing. Dieter Rödder, Robert Bosch, Stuttgart

E-Vehicle Mobility – System
Moderation: Dr.-Ing. Dieter Rödder, Robert Bosch, Stuttgart

Future of Transportation
Moderation: Jörg Lützner, Continental Automotive GmbH, Schwalbach

Session CV: Addis Abeba
(Basement)
Parallel Conference:
Electric/Electronics for Commercial Vehicles 2023

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

17:10 Parallel Sessions

18:40 End of the first Congress Day

19:00 Night of Electronics at 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

08:30 Parallel Sessions

- **Session 1: New York** (Ground Floor)
  - **Software**
    - **Moderation:** Dr. Rickef Schmidt-Clausen, CARIAD SE, Ingolstadt

- **Session 2: Nairobi** (Ground Floor)
  - **Automotive AI – Applications**
    - **Moderation:** Kay Talmi, HELLA GmbH & Co. KGaA, Berlin

- **Session 3: Wien** (Ground Floor)
  - **System Engineering and Processes**
    - **Moderation:** Dipl.-Ing. Martin Schleicher, Continental, Erlangen

- **Session 4: Bangkok** (Basement)
  - **Security – Vulnerabilities**
    - **Moderation:** Dipl.-Ing. Martin Schleicher, Continental, Erlangen

- **Conference CV: Addis Abeba** (Basement)
  - **Propulsion**
    - **Moderation:** Dipl.-Ing. (FH) Stefan Riegl, MAN Truck & Bus SE, Munich

10:00 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

10:30 Always Fresh Cockpit Experience Built on Cloud Native Technology
**Vishnu Gurusamy Sundaram, M. Sc.,** Senior Vice President, Cockpit, Mobile and Apps, **Stellantis,** Auburn Hills, MI, USA

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

11:45 Parallel Sessions

- **Panel Discussion:** Transformation of working environment
  - **Moderation:** Dipl.-Ing. Stefan Singer

- **Software – Cloud & Data**
  - **Moderation:** Dipl.-Ing. Stefan Singer

- **System Engineering and Processes**
  - **Moderation:** Dipl.-Ing. Dieter Rödder, Robert Bosch, Stuttgart

- **Security – Challenges**
  - **Moderation:** Dipl.-Ing. Henning Harbs, Volkswagen AG, Wolfsburg

- **Components, Subsystems & Integration**
  - **Moderation:** Dr. Falk Hecker, Knorr-Bremse Systeme fuer Nutzfahrzeuge GmbH, Schwieberdingen

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

14:30 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
**Igal Raichelgauz, B. Sc.,** Founder & CEO, **Autobrains Technologies Ltd.**, Tel Aviv-Yafo, Israel

15:00 Semiconductors Are Driving Sensing and Thinking
**Dr.-Ing. Yankin Tanurhan,** Senior Vice President of Engineering, Solutions Group, **Synopsys, Inc.**, Sunnyvale, CA, USA

15:30 Conclusion and Discussion
**By Members of the Program Committee**

16:00 Award Ceremony “Auto Electronic Excellence Award 2023”, best Start-up and Closing of the Congress

16:15 End of the Congress
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

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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, Sales, Business Strategy & Development, Microsoft Corporation, Munich

09:40 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

10:10 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

Simply download the Event-App and register!

The App will be available for download at the Apple App Store and the Google Play Store for all participants as of October.

App areas:
- Digital congress program: create your own agenda at once
- General event information
- Evaluation and question function
- Exhibition information
- Service information
- Networking:
  - Digital Business Card: create your Digital Business Card. Share your data quickly and easily with other participants and save new contacts directly
  - Use the "Offer" and "Search" function to find and contact other participants
  - Meeting Arrangement: request appointments with other participants

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Sponsor
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

11:55 Criticality Driven Data Acquisition in Autonomous Driving – A Basis for Completeness and Safety Argumentation
- Method developed in VVMMethods
- Basis for ISO21448 SOTIF validation
- Efficient data acquisition in automated driving
- Smart Data analytics in automated driving
Dipl.-Ing. (FH) Max Nestoriuc, Teamleader ADAS Systemdesign & Validation, Co-authors: Himanshu Wali, M. Sc., both of AVL Deutschland GmbH, Stuttgart, Dipl.-Ing. Thomas Gunttschnig, AVL List Gmbh, Graz, Austria

11:55 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 Fahrzeugsicherheit GmbH & Co. KG, Munich

11:55 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

11:55 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
Markus Kremer, System Architect ADAS/AD, FEV.io GmbH, Aachen

11:55 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

11:55 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, Co-authors: Daniel Möller, Maliheh Sadeghi Kati, all of Volvo GTT, Gothenburg, Sweden

11:55 UNICAragil – 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, Co-authors: Raphael van Kempen, M. Sc., Univ.-Prof. Dr.-Ing. Lutz Eckstein, all of RWTH Aachen University

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
1st Congress Day

12:25
12:15 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

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

- Perspective on Software-defined Vehicle from a non-automotive company
- Current state of Open Source Software
- Challenges of building an Open Source Ecosystem
  Automated Driving – Sensors
  Moderation: Jürgen Bortolazzi, Porsche AG, Weissach

14:25 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, San Jose, CA, USA

14:25 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
  Dipl.-Ing. Andreas Heise, Head of ADCU Technology, Principal Expert Mechatronic Technologies, Continental AG, Eschborn

14:25 New Opportunities with Software-Defined Lighting – Personalization and Emotionalization of Vehicle
- Software Defined Lighting
- Established signal functions in a new appearance
- Experience the vehicle by light
  Dr. Carsten Wilks, Head of Innovation Lighting Electronics, Co-authors: Dr. J. Roslak, both of Hella KGaA Hueck & Co., Lippstadt

- 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, Savelberg, both of FEV Europe GmbH, Aachen, Lukas Schäfers, M. Sc., RWTH Aachen University

14:25 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

14:25 Bulli, Pick Me Up: Continuous Testing as a Key for Developing a Robot-Taxi-System
- Autonomous vehicles, MaaS, TaaS, robot cab
- Continuous Integration/Continuous Deployment
- Software Integration
- Testing & simulation of automated vehicles
  Dr. Ing. Christian Rössner, Head of Integration & Verification, Autonomous Driving, MaaS, TaaS, Volkswagen AG, Wolfsburg

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

Robert Day, Director, Autonomous Vehicles, Arm, San José, CA, USA

15:25

An OEM Perspective of Open Source

Christian Salzmann, SVP Connected Company, Electronics and Autonomous Driving BMW China, BMW Group, Shanghai, China

14:45

Automotive Radar Technology Innovations Power Next-gen ADAS and Autonomous Driving
- 28nm RFCMOS 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

Analysis of WBG Based Hybrid Semiconductors Approach for Bidirectional PFC in On-Board Charger Applications
- On board charger
- Wide band gap devices
- PFC
- Car electrification

Dr.-Ing. Domenico Nardo, Power Specialist for automotive applications, Technical Marketing, Co-authors: Francesco Gennaro, Giuseppe Aiello, all of STMicroelectronics GmbH, Aschheim

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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

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

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

Dipl.-Ing. Klaus Fuchs, Senior Product Manager, ADAS/AD, AVL Software and Functions GmbH, Regensburg and Dipl.-Ing. Gernot Hasenbichler, Senior Product Manager, ADAS/AD, AVL List GmbH, Graz, Austria

Combing 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, StratVision, 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

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Dipl.-Ing. Klaus Fuchs, Senior Product Manager, ADAS/AD, AVL Software and Functions GmbH, Regensburg and Dipl.-Ing. Gernot Hasenbichler, Senior Product Manager, ADAS/AD, AVL List GmbH, Graz, Austria
17:10 What It Really Takes to Empower Solutions, Head of Mobility Business Sector Board Bosch Mobility Dr. Mathias Pillin, Member of the Tangible contributions a soft- service architectures Key levers: decoupling hardware Data management and data orchestration, scalable based on the containerized applications

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

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.io GmbH, Aachen

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 UN-ECE 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 %

Lukasz Roslaniec, PhD, Department Leader & Engineer, Power Electronics, Co-author: Thomas Hackl, both of hofer powertrain, Nürtingen

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

Enrico Salvatori, SVP & President Europe/MEA, Qualcomm, Munich

18:10 Maintaining Open-Source Based automotive Software Development Costs by 30%?

- Regulations like UNECE R 156 and ISO/SAE 21434 mandating long periods of fixes and updates
- Need for car manufacturers to take a pro-active 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

18:40 End of the 1st Congress Day

19:00 Night of Electronics at the MS RheinEnergie

The VDI invites all participants, speakers, and exhibitors to join the “Night of Electronics” aboard Europe’s largest event liner, the MS Rheinenergie. This evening reception is the perfect opportunity to network and continue the discussions of the first congress day in a relaxed atmosphere. Meet your peers and business partners and enjoy a varied entertainment program.

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Transcending Physical Time – Accurate Simulation of Novel HW/SW-Decoupled Systems

- Despite all attempts to create hardware abstraction layers, automotive software is often tightly coupled to HW timing behavior.
- Next generation middleware can help decouple timing dependencies from functional code.
- We get more robust code with higher portability across HW generations and vendors.
- We can build highly accurate test feedback loops without perfect HW simulators.

Christian Ueber, CTO, Engineering, ETAS GmbH, Stuttgart, Co-authors: Dr. Karsten Muehlmann, Dr.-Ing. Philipp Mundhenk, both of Robert Bosch GmbH, Stuttgart

AI-Based Energy Management of Next Generation Architectures

- New power distribution concept in the upcoming Server-Zone E/E architecture.
- Investigation in different Electrical and Electronic (E/E) structures, and evaluate their advantages, features, and potentials.
- Division of responsibilities between the server and different zones improved using machine learning or artificial intelligence.

Dipl.-Ing. Martin Schlecker, Head of Department, Vehicle Control Unit, Co-authors: Thomas Zipper, Dr. Lin Li, all of AVL Software and Functions GmbH, Regensburg

Virtual Homologation (UNEC R 155/156/157) – New Opportunities for the Automotive Industry to Enable More Efficient Development Processes and Improving Safety and Quality of Vehicles for High Scaling Software Updates Based on Current and Future Regulations

- Number of homologation relevant software updates will explode in near future.
- New approaches for homologation/type approval are required in order to fulfill customer expectations and in compliance with legal authorities and OEMs product roadmaps.
- Partnerships between legal authorities, certifiers, OEMs and technology companies.

Dipl.-Ing. Robert Lokner, MBA, Director Automotive, Automotive Industry, Microsoft Corporation, Munich and Dipl.-Ing. Alexander Kraus, CTO, Mobility Division, TÜV SÜD Auto Service GmbH, Munich

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 Dreiseitl, Growth Field Manager AI Technologies, Research and Advanced Engineering, Co-author: Dr. Dilara Yesilbas, both of Continental Automotive Technologies GmbH, Frankfurt am Main/Regensburg

An Approach to Digital Lifecycle Management as a Service

- New customer experience by mod- ifying the automotive ecosystem.
- Strategic development and control of software updates for new user experiences in automotive industry.
- Software updates as a new approach to create customer value.

Dipl.-Inf. Henry Bastian, Product Manager DLMC Control Center, Digital Lifecycle Management, Co-authors: Dipl.-Ing. Benjamin Baron, Dr. Frank Althoff, all of CARIAD SE, Wolfsburg

Automotive Software Vulnerabilities: Strategies for Early Detection, Mitigation, and Prevention in the Software-Development-Lifecycle

- Root causes of automotive software vulnerabilities.
- Most common weakness classes 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

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 Emmerich, both of Apex.AI GmbH, Munich

System Engineering and Processes

Virtual Homologation (UNEC R 155/156/157) – New Opportunities for the Automotive Industry to Enable More Efficient Development Processes and Improving Safety and Quality of Vehicles for High Scaling Software Updates Based on Current and Future Regulations

- Number of homologation relevant software updates will explode in near future.
- New approaches for homologation/type approval are required in order to fulfill customer expectations and in compliance with legal authorities and OEMs product roadmaps.
- Partnerships between legal authorities, certifiers, OEMs and technology companies.

Dipl.-Ing. Robert Lokner, MBA, Director Automotive, Automotive Industry, Microsoft Corporation, Munich and Dipl.-Ing. Alexander Kraus, CTO, Mobility Division, TÜV SÜD Auto Service GmbH, Munich

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.


Hydrogen – A Game Changer in the Automotive Industry … and Beyond

- H2 market and potentials.
- The road to net zero: H2 as preferred solution.
- Bosch’s Contribution in mobile applications.
- …and beyond (stationary applications).

Dr. Silke Spitzer, Senior Vice President SW Engineering Powertrain Solutions – Electronic Controls, Robert Bosch GmbH, Plochingen

Electrified Commercial Vehicle Trailers – How to Turn a Conventional Trailer into a Hybrid Vehicle

- Electrification/hybridisation of heavy duty trailers.
- Decarbonisation of commercial vehicle transport.
- eMobility.

Dr. Nils Pfuhlmann, Team leader System Solutions Trailer, ZF Friedrichshafen AG, Hannover

Register at: www.eliv-congress.com
11:00 Coffee break, Exhibition and Start-up Area visit

10:00 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
- Outlook – what’s next

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

10:30 Always Fresh Cockpit Experience Built on Cloud Native Technology
- Staying ahead of the curve with Cockpit Experience
- Multimodal Engaging Experience
- Preparing the architecture for Scalability with Cloud and EDGE
- Working with the ecosystem

Vishnu Gurusamy Sundaram, M. Sc., Senior Vice President, Cockpit, Mobile and Apps, Stellantis, Auburn Hills, MI, USA

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

Panel Discussion

Software – Cloud & Data
Moderation: Dipl.-Ing. Stefan Singer

Sustainable Software Development for Cloud-Native Vehicles
- Standardization of Vehicle APIs cross the Automotive Industry
- Creating open Eco Systems like Machines, Devices, Applications and DevOps
- Defining the next generation of Zonal Architectures to realize the SDV

Dipl.-Ing. (FH) Martin Bornemann, Vice President, Advanced Technology & Architecture, CTO Office, Co-author: Florian Baumann, both of Aptiv Services Deutschland GmbH, Wuppertal

Panel Discussion

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 Dieboldier, both of Dr. Ing. h.c. F. Porsche AG

Panel Discussion

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

Andrew Till, B.A., General Manager Secure Platform, Executive Team, Trustonic Limited, Cambridge, United Kingdom

Panel Discussion

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, BRUS-A HyPower AG, Buchs, Switzerland
2nd Congress Day

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

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 and Hamza Ghezali, Master Student, Technical University of Clausthal, Co-authors: Steffen Witke, Robert Bosch GmbH, Hildesheim, Prof. Dr. Steffen Herbold, 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 Velino, 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 product maturity
- Challenges of integrating “everything”
Christian Hübscher, Principal Consultant and Ralf Geppert, Consultant, both of 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/Engineering
Manuel Sandler, Partner, Consulting, CYRES Consulting Services GmbH, 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 Sisejkovic, all of Robert Bosch GmbH, Renningen/ Ludwigswburg/Hildesheim

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
Omkar Panse, Vice President, Head of Middleware Solutions, KPIT Technologies Ltd., Pune, India and Nico Hartmann, CTO, Qorix, Munich

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
Power Electronics and Circuit Board Design for E-Mobility –
The Latest Megatrends Without Ignoring the Enablers or the Classic Topics

In modern vehicles, power electronics are becoming increasingly important due to electro-mobility and the increasing number of electronically controlled functions. An important component of power electronics are printed circuit boards. Various electronic components are connected to each other on these, allowing them to communicate with each other. The demands on printed circuit boards are also increasing rapidly – higher currents and low volumes bring with them a conflict of objectives that developers must meet.

In this workshop you will first receive a practice-oriented overview of the energy storage devices, switching elements and basic circuits of the power electronics used in modern vehicles. These are presented using practical examples. Furthermore the challenges in the layout and design of printed circuit boards for automotive applications will be discussed. In addition to larger currents and the associated higher temperatures, e.g. an EMC-compliant design and thermal management must be taken into account. You will learn which materials and assemblies are suitable for use in electric vehicles. You will get an overview of the advantages and disadvantages of the various offers on the market and be able to take them into account when designing printed circuit boards.

Who is the target group of this workshop?

- Development Engineers
- Project managers
- Technical executives

in the vehicle and supplier industry and at development service providers in the E/E sector

Content of this workshop

- Energy storage, consumers, systems, the need for voltage transformation
- Basics HV and the voltage transformation
- Basic voltage transformation circuits
- Interference suppression, mains filter, XY-capacitors, mains filter structure
- Requirements for interference suppression capacitors (DIN EN)
- Components (power transistor, diodes, relays)
- Electronics design process of a circuit board and assembly
- Circuit board manufacturing

Date and venue:
October 20, 2023
Dorint Hotel Venusberg, Bonn, Germany
Time: 09:00 – 16:30
Workshop Chair:
Andreas Wirtz, blue square consulting UG, Cologne
The workshop will be held in German language and with German documentation – no translation!
Register at:
www.vdi-wissensforum.de/01ST158
List of Exhibitors (June 13, 2023)

3D Mapping Solutions GmbH
ANavS Sensor Technologies GmbH
Apex.AI GmbH
APL Automobil-Prüftechnik Landau GmbH
ARM Limited
Aurora Labs
AVL List GmbH
Bertrandt AG
Brose Fahrzeugteile SE & CO. KG, Bamberg
Cadence Design Systems GmbH
Continental Engineering Services GmbH
CTAG
Deep Safety GmbH
Digitalwerk GmbH
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Göpel electronic GmbH
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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.

Interested in taking part?
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

The program of the start-up stage is expected to be published in mid-August. You can look forward to exciting presentations. More info at: www.eliv-congress.com/exhibition-and-sponsoring/start-ups/

See who is already participating in the start-up area:
ANavS Sensor Technologies GmbH | Deep Safety GmbH | Elexir AG | EPICNPOC SAS | KooSys GmbH | Scantinel Photonics
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.

Contact: Brose Fahrzeugteile SE & Co. Kommanditgesellschaft
Christoph Maag, Vice President Electronics Brose Group
Berliner Ring 1 | 96052 Bamberg
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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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KPIT Technologies is a global partner to the automotive and Mobility ecosystem for making software-defined vehicles a reality. It is a leading independent software development and integration partner helping mobility leapfrog towards a clean, smart, and safe future. With 10000+ automobilievers across the globe specializing in embedded software, AI, and digital solutions, KPIT accelerates its clients’ implementation of next-generation technologies for the future mobility roadmap. With engineering centers in Europe, the USA, Japan, China, Thailand, and India, KPIT works with leaders in automotive and Mobility and is present where the ecosystem is transforming.

Contact: KPIT Technologies GmbH
Frankfurter Ring 105b
80807 Munich
Web: www.kpit.com

Tata Technologies GmbH, a subsidiary of Tata Technologies, is strategically set up to help German OEMs and Tier 1s conceptualize, develop, and realize better products that are safer, cleaner, and improve the quality of life for all the stakeholders. It leverages our global diverse talent pool of 11000+ innovators spread across 27+ countries, and global best practices to help our customers develop competitive products and win at the marketplace.

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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.

More information: www.vdi.de/fvt

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28% Tier 1/Tier 2 – Automotive suppliers
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7% Hardware Providers
6% Electronics
10% Mobile Communications
8% Cities, Fleet, Infrastructure

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Great trade exhibition with about 100 international exhibitors gives an overview of new products and solutions
ELIV – Electronics in Vehicles

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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- Beverages during breaks
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- Night of Electronics at the MS RheinEnergie
- Visit to the exhibition, Start-up Area and special Start-up Program

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Venue

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

Accommodation

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

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