

LECTURE PROGRAM



20
26

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INTRODUCTION BY THE SCIENTIFIC DIRECTORS



**UNIV.-PROF. DR.-ING.
LUTZ ECKSTEIN**
ika, RWTH Aachen University

**UNIV.-PROF. DR.-ING.
STEFAN PISCHINGER**
tme, RWTH Aachen University

The automotive industry is undergoing a dynamic technological transformation. Engineers, developers and decision-makers are facing complex challenges – from powertrain electrification and next-generation battery systems to software-defined vehicle architectures, intelligent energy management including sustainable fuels and increasing levels of automation. At the same time, artificial intelligence is emerging as a key enabler across the entire mobility ecosystem. From AI-supported development processes to intelligent vehicle functions and data-driven optimization, the pace of innovation continues to accelerate. Against the backdrop of evolving regulations, new customer expectations and global competition, the need for interdisciplinary collaboration and forward-thinking solutions has never been greater.

Introduction by the Scientific Directors

The thematic highlight of this year's edition, "Mobility meets AI," runs throughout the technical program. We are particularly pleased to address this focus in cooperation with the RWTH Center for Artificial Intelligence, bringing together leading expertise from artificial intelligence and automotive engineering.

Once again, the Aachen Automotive Colloquium offers an exciting mix of high-profile plenary speeches and 80 technical presentations covering topics such as vehicle architecture, electrification, powertrain technologies, AI-driven mobility, functions and digital development processes. In addition, our exhibition area will provide a stage for innovative companies and emerging technologies. A highlight will once again be our driving event in real road traffic, offering participants the opportunity to experience cutting-edge mobility technologies firsthand.

Beyond the sessions, the Aachen Automotive Colloquium remains a place where the international mobility community comes together to exchange ideas, build partnerships and shape the future of pioneering mobility - in the exhibition, during lunch, or at our traditional banquet evening.

This year also marks an exciting new chapter for our event. The Aachen Automotive Colloquium moves into its beautifully restored new home, the historic Kurhaus Aachen. Combining architectural heritage with state-of-the-art technology, this unique venue provides an inspiring setting for discussing the future of mobility. At the same time, the colloquium itself presents a fresh look: a new name, a new logo and a fully refreshed design – reflecting the spirit of innovation that defines our community.

INTRODUCTION BY THE LORD MAYOR



MICHAEL ZIEMONS

Lord Mayor of the City of Aachen

Dear experts, innovators, researchers and visionaries,

I would like to extend a warm welcome to you all to our innovative city for the 35th Aachen Automotive Colloquium. For decades, Aachen has been synonymous with fruitful collaboration between academia and industry. It is precisely this spirit that this internationally renowned forum embodies.

Under the theme “Mobility meets AI”, we are looking towards a future in which artificial intelligence redefines mobility: making it smarter, safer and more sustainable.

The diversity of the specialist presentations, plenary speeches and exhibitions impressively demonstrates how dynamically the industry is developing and how crucial interdisciplinary collaboration is.

Aachen is proud to host this forward-looking exchange of ideas.

My special thanks go to the organizers at RWTH Aachen University and to all those involved who, year after year, make this colloquium a place of inspirations and progress.

I invite you not only to take part in the technical program but also to experience Aachen’s unique atmosphere – whether at the Kurhaus, during the evening events or through personal exchanges.

I wish you days full of insights, inspiring conversations and new ideas for the mobility of tomorrow.

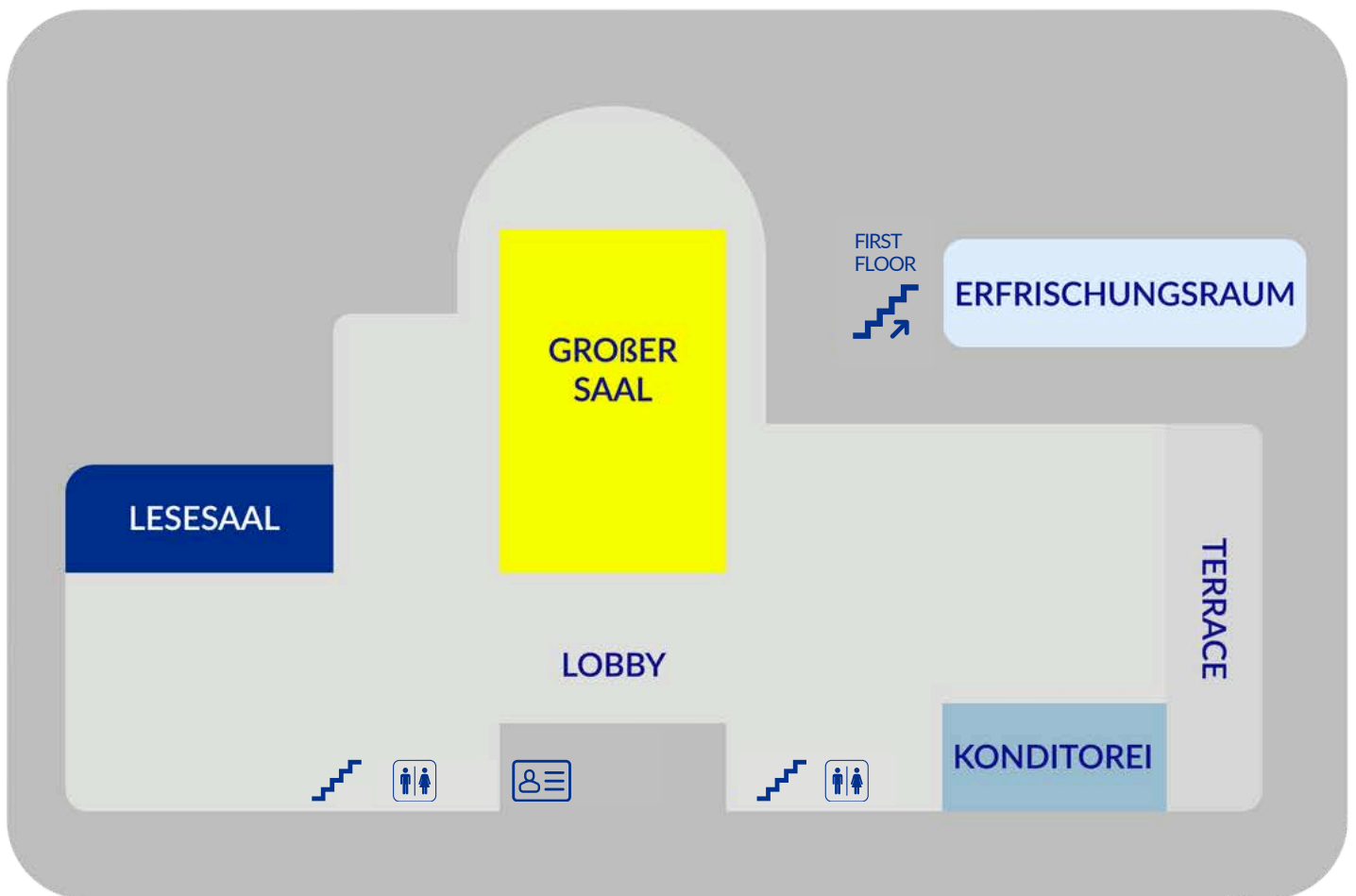
A handwritten signature in black ink that reads "Michael Ziemons". The signature is written in a cursive, flowing style.

Dr. Michael Ziemons
Lord Mayor of the City of Aachen

VENUE PLAN

Take a look at the four lecture rooms in our new venue:

The Kurhaus Aachen



 Registration

 Toilets

 Stairs

EXHIBITION PLAN

All information about the exhibition plan will be published here in the coming weeks.

Take a look at our exhibitors:

- ACTech
- AI Center
- Bertrandt
- Denso
- Drive System Design
- FEV
- fka
- Freudenberg
- Hyundai
- OPmobility
- Qingdao
- SEI
- Toyota

The exhibition plan will be available soon.

Custom tailored trainings for mastering the automotive transformation

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- ▶ **Bridge the skill gap between traditional engineering and AI, ADAS/AD, Robotics, EVs and human centered design thinking**
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www.ika.rwth-aachen.de/academy/

PLENARY SESSION

TIM GUTHEIT



Vice President Technology & Innovation Automotive
Infineon Technologies

Dr. Tim Gutheit holds a degree and Ph.D. in physics from the Technical University of Munich. He holds 12 patents, for example, in the fields of materials and wafer technology.

In 2016, Tim assumed his role as Vice President of Technology & Innovation of the Automotive division at Infineon Technologies, that in the 2025 fiscal year accounted for 50 percent of Infineon's total company revenue of about 14.7 billion EUR.

As "Country R&D Officer Germany" he represents Infineon's R&D staff in Germany, about 5,000 engineers at 10 locations. In the automotive sector, his responsibilities also include working on government innovation programs all over the globe and collaborating with the world's leading technology universities.

Tim was a member of the "Council for Technological Sovereignty" of the German Ministry for Research, Technology & Space (BMFTR) and is active in Germany's "PLS - Plattform Lernende Systeme - Platform For Artificial Intelligence", which is funded by the BMFTR.

Tim has played a key role in the development of Infineon's Smart Power Technology platform, which today forms the foundation of Infineon's Embedded Power products with their new level of integration of logic, power and memory functionality on one silicon die. Under his innovation leadership, Infineon became the global number one in automotive semiconductors.

Tim and his research and development teams are firmly committed to making zero emissions a reality in vehicles, turning drivers into passengers and making vehicles even smarter.

PLENARY SESSION

MANFRED HARRER



President & Head of R&D Division
Hyundai Motor Group

Dr. Manfred Harrer is a globally recognized authority in automotive R&D. He specializes in the mission-critical convergence of hardware and software architecture. As President and Head of R&D at Hyundai Motor Group, he leads a world-class global organization responsible for shaping the next generation of Hyundai, Kia and Genesis vehicles.

With over 25 years of leadership experience at the industry's most prestigious engineering centers, his expertise lies in complex vehicle integration and large-scale global product development. Dr. Harrer represents the modern R&D executive - balancing mechanical precision with digital agility. From driving advanced product innovation in Silicon Valley to orchestrating large-scale engineering operations in Seoul, he has guided global technical teams through profound industry transformation.

His insights provide a technical roadmap for how engineering excellence and software innovation must merge to define the future of global mobility.

PLENARY SESSION

PETER HOLDMANN



Chief Technology Officer

ZF Friedrichshafen AG

Dr Peter Holdmann is a mechanical and automotive engineer and earned his doctorate at RWTH Aachen University. After research and teaching roles at RWTH Aachen's Institute of Automotive Engineering (ika), he joined ZF Friedrichshafen AG in 2000, entering industry as a program manager and very quickly assuming leadership responsibility. Over the following years, he held international management positions in car chassis technology and led the global chassis modules business from 2008 to 2015.

Following the acquisition of TRW Automotive, Holdmann moved to the United States in 2015, where he served as Chief Operating Officer (COO) for ZF TRW's chassis business until 2018. Since 2019, he has been leading ZF's global chassis division.

The Division Car Chassis Technology under his leadership was expanded to include steering and braking activities and was transferred into the newly established Division Chassis Solutions at the beginning of 2024.

Dr Peter Holdmann has been a member of the Board of Management of ZF Friedrichshafen AG since May 2024, responsible for the Division Chassis Solutions, the North and South America regions, and Research and Development. In addition, he assumed the role of Chief Technology Officer (CTO) in March 2026. In this function, he consolidates group-wide technology and engineering governance at Board level.

PLENARY SESSION

CARSTEN HELBING



Co-CEO and COO

Rivian and Volkswagen Group Technologies

Carsten Helbing is Co-CEO and COO of Rivian and Volkswagen Group Technologies, the joint venture between Rivian and Volkswagen Group building the software-defined vehicle platform for the next generation of vehicles. At RV Tech, Carsten leads the organizational and operational execution behind one of the most closely watched technology partnerships in the automotive industry – bringing together the rigor of deep systems expertise and the pace of a startup to solve a genuinely hard problem.

RV Tech is developing a scalable zonal architecture and software operating system designed for Volkswagen Group brands and Rivian, with the ambition to set a new reference standard for the industry at large.

The work sits at the intersection of complex systems engineering, cross-cultural collaboration, and a conviction that the next generation of vehicles will be defined by software. Carsten brings more than two decades of R&D experience at Volkswagen Group, where he previously served as Chief Technology Engineer and as a member of the Executive Board of Volkswagen Group's AI-LAB. His career spans the full arc of automotive transformation – from mechanical engineering fundamentals to the software-defined era – giving him a grounded perspective on both what the industry has built and where it needs to go.

A graduate of Technische Universität Darmstadt, Carsten joined Volkswagen as a graduate engineer and spent over two decades shaping the company's most critical technical decisions before stepping into his current role. Today, he is focused on building the infrastructure that will define how the next generation of vehicles is developed, scaled, and experienced.

PLENARY SESSION

ANTONIO KRÜGER



CEO & Scientific Director, DFKI
Head, Cognitive Assistants
Prof. of Computer Science,
Saarland University

Deutsches Forschungszentrum
für Künstliche Intelligenz GmbH

Antonio Krüger is the CEO and Scientific Director of Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI), as well as the Scientific Director of the Cognitive Assistants research department at DFKI.

He has been a professor of computer science and head of the Ubiquitous Media Technology Lab at Saarland University since 2009 and is an internationally renowned expert in human-machine interaction and artificial intelligence (AI).

His research focuses on intelligent user interfaces, user modeling, cognitive sciences, and ubiquitous computing. Professor Krüger studied computer science at Saarland University, completing his doctorate in the subject in 1999.

PLENARY SESSION

MARCO LICCARDO

IVECO



Chief Technology & Digital Officer

IVECO

Marco Liccardo has worked for IVECO since the beginning of his career in 2001, which makes him an experienced leader with extensive knowledge of the Company and its products. Mr Liccardo graduated with a degree in Engineering from University Federico II of Naples, Italy, and holds an MBA in Management Systems from Consortium Qualital University in Pisa, Italy.

Beginning his career at IVECO as a Quality Change Agent and Senior Testing Specialist, Mr Liccardo then moved to IVECO Latin America from 2009 to 2012 where he assumed the role of Engineering Director, leading the creation of a new R&D centre in Brazil. Following this, from 2012 to 2013 he worked as Product Development and Engineering Director for the full CNH Industrial product portfolio for the APAC region.

The following year he became Vice President of Product Development and Engineering for the Medium and Heavy truck range, heading up the design and development of the new IVECO Way vehicle line-up. He was appointed Director of Commercial & Specialty Vehicles, Technology and Digital Segment in 2019, taking responsibility for all product development and engineering activities including the digital transformation of the entire IVECO product portfolio worldwide.

Marco Liccardo is currently the Chief Technology & Digital Officer at Iveco Group.

PLENARY SESSION

ANDREAS NAUERZ

IONOS



Member of the Executive Board & CPO

IONOS

Dr. Andreas Nauerz is Chief Product Officer at IONOS, where he has been responsible for the company's global product strategy, portfolio, and innovation initiatives since September 2025.

With more than two decades of leadership experience in the technology and software industry, he has built deep expertise in cloud computing, AI, and digital platforms. Before joining IONOS, he served as CTO and member of the Executive Board at Bosch Digital, leading technology, product, and innovation initiatives for Bosch's global digital division with around 12,000 employees worldwide. His work focused particularly on generative AI and large-scale digital transformation.

Prior to this, Dr. Nauerz held leadership positions at Bosch.IO, including CEO, Co-CEO, and CTO, where he helped shape the company's IoT and AI-driven platform strategy. Earlier in his career, he spent more than a decade at IBM and played a key role in the launch of IBM Cloud Functions, IBM's serverless computing platform.

Having led international teams across Europe, Asia, North America, and South America, Dr. Nauerz brings a global perspective on cloud technologies, AI, and digital innovation to the Aachen Automotive Colloquium.

PLENARY SESSION

YUAN SHEN



SVP & CTO

Geely Holding Group

Dr. Shen obtained his Ph.D. in Mechanical Engineering from Michigan State University. He currently serves as Senior Vice President and Chief Technology Officer at Geely Holding Group, overseeing product and technology management, investment incubation, and innovation initiatives.

He has long been dedicated to the research and development of automotive powertrain technologies, with extensive experience in internal combustion engines, new energy propulsion systems, and is now leading the development of next-generation vehicle technologies.

Dr. Shen has led several key research and development programs, in which three engines developed under his leadership successively won the "Top 10 Engines of China Heart" award. He has published dozens of academic papers and inventions.

PLENARY SESSION

TAKASHI UEHARA



President Powertrain

Toyota Motor Corporation

Takashi Uehara is President of the Powertrain Company at Toyota Motor Corporation and a senior leader in powertrain technology and product strategy.

He began his career at Toyota in 1991 and has since led and supported development programs spanning motorsport engines, hybrid systems, and electrified powertrain systems, with a focus on advancing powertrain performance, efficiency, and technology integration. Appointed Chief Project Leader for the Powertrain System Development domain in 2022, he assumed his current role in July 2023 and drives Toyota's multi-pathway strategy, including electrification and future energy collaboration initiatives.

PLENARY SESSION WIL VAN DER AALST



**Alexander-von-Humboldt
Professor, RWTH Aachen
University**

Chief Scientist, Celonis

Wil van der Aalst is an Alexander-von-Humboldt professor at RWTH Aachen University, leading the Process and Data Science (PADS) group, and also the Chief Scientist at Celonis.

He is also known as the "Godfather of Process Mining" and is one of the most-cited computer scientists in the world (top-10 worldwide, according to research.com).

Van der Aalst is an IFIP Fellow, IEEE Fellow, and ACM Fellow, as well as an elected member of the Royal Netherlands Academy of Arts and Sciences, the Royal Holland Society of Sciences and Humanities, the Academy of Europe, and the German Academy of Science and Engineering, and is considered to be one of the leading experts in process mining, data science, process management, and workflow automation.

PLENARY SESSION

R. VELUSAMY




President Automotive Business

Mahindra & Mahindra Ltd.

R. Velusamy, is a transformational automotive leader with nearly three decades of experience in building future ready mobility businesses. He has played a pivotal role in redefining Mahindra's product and technology strategy, spearheading the shift towards next generation platforms & electrification. As President of Automotive Business, he now leads the complete Auto P&L. driving growth, profitability & global Competitiveness.

Joining Mahindra & Mahindra in 1996, Velusamy began his career in the powertrain division, where he led the development of the revolutionary MHawk engines, setting new industry standards for performance, efficiency, and durability.

Plenary Session - R. Velusamy

His leadership has played a key role in the development and launch of Mahindra's most iconic vehicles, including the All-New Thar, XUV700, Scorpio-N, XUV3XO, Thar Roxx & XUV 7XO which have redefined their respective segments.

As Managing Director of Mahindra Electric Automobile Limited (MEAL), Velu spearheaded the development and launch of Mahindra's electric-origin SUV portfolio, setting new benchmarks in the Indian electric vehicle space through XEV 9e, BE 6, and XEV 9S, BE6 Batman & Formula E Edition. In addition, he holds multiple leadership roles across M&M Group companies, serving as Chairman of the Board at Mahindra Racing UK and as a Board Director at PF Holdings B.V. He also actively contributes to industry advancement through key leadership roles, serving as Chair of the SIAM Passenger Car CEO Council, President of the Automotive Research Association of India (ARAI) Governing Council, a Member of the Governing Board of the Centre for Advanced Automotive Research (CAAR).

Velusamy holds a B.Sc. from the University of Madras and a B.Tech in Automobile Engineering from Anna University, Chennai. He has further strengthened his leadership and strategic acumen through executive programs at Wharton Business School, Harvard University, and Michigan Ross School of Business.

SESSION OVERVIEW

Monday, October 5th, 2026

18:00 Welcome Reception & Opening Exhibition in the Kurhaus

GROßER SAAL

LESESAAL

KONDI TOREI

ERFRISCHUNGSR AUM

Tuesday, October 6th, 2026

08:30 Opening Plenary Session

10:45 ICE I

Advanced E/E Platforms

AI Trends in Mobility

Commercial Vehicles

13:30 Mobility meets AI Plenary Discussion

14:35 Strategy I

H2 ICE

AI based Development

Drive Systems I

16:35 ICE II

Strategy II

AI Application

Automotive Start-Ups

Wednesday, October 7th, 2026

08:00 Charging & Battery Systems I

Autonomous Shuttle

AI in Fleet

Sustainability

10:00 Future Powertrains

Fuel Cell I

AI driven Functions I

Drive Systems II

11:05 Plenary Session

13:45 Fuel Cell II

Battery Systems II

AI driven Functions II

Hybrid Powertrains

16:40 Closing Plenary Discussion: From Hype to Impact: AI in Automotive Development and Organizations

FEV

feel
evolu
tion



**We drive
innovation
to help
the world
evolve**

We love technology. And we understand it deeply. This enables us to pioneer ideas and shape strategies that keep our clients, partners and our people ahead of the game. We do this by asking the right questions: why is it this way? How can it be better? Then we explore, challenge, test and learn – continually improving the solutions we implement and the ways we work together. This helps us develop world-class innovations within sustainable mobility, energy and software to power a better future and a greater quality of life for all.

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POSTER PRESENTATIONS

1 ANTJE MUNTZINGER Hochschule für Technik Stuttgart

Teaching AI to Respect Physics: Robust Perception via Physics-Guided Learning

Modern perception systems for automated driving are highly capable, but AI models can still produce physically implausible outputs in challenging scenarios. This contribution presents a physics-guided learning approach to improve the robustness and reliability of camera-based environment perception for automotive applications.

3 VINCENT QUAST IMSE, RWTH Aachen University

Retrieving information from system architectures in model-based systems engineering.

As the complexity of modern cyber-physical systems increases, model-based systems engineering (MBSE) is becoming essential for managing development processes and system information. This study presents an AI-based chatbot using a GraphRAG approach to access and utilize information stored in MBSE system models, improving accessibility and reducing complexity for stakeholders.

5 SIMON DEHN IMSE, RWTH Aachen University

AI-based Formalization of Requirements and Generation of SysML v2 System Architectures

The increasing complexity of automotive systems and unstructured requirements creates significant manual effort in requirements engineering and system modeling. This work presents an AI-based methodology that transforms natural language requirements into consistent SysML v2 system architectures, enabling faster, more traceable, and automated MBSE workflows for automotive development.

2 GREGORIUS KRISNA CAHYANTO Esslingen University of Applied Sciences

Optimization of emission behavior for a hydrogen combustion engine

Early concept decisions for high-performance vehicles rely heavily on KPIs such as acceleration performance and track capability, often before detailed development data is available. This paper presents a digital development process combining public competitor data, physics-based simulations, and machine learning to enable rapid KPI estimation and competitor benchmarking in early vehicle development.

4 MATTHIAS MAY IMSE, RWTH Aachen University

Bridging Requirements and Verification: An AI-Based Tool for Automated Test Case Generation

The development of automotive systems is becoming increasingly complex, making the transformation of requirements into robust test cases a major challenge. This contribution presents an AI-based tool that automatically extracts test-relevant information from requirements and MBSE system models to accelerate and improve the generation of structured, traceable test cases.

6 MICHAEL PALOCZ-ANDRESEN Leuphana Universität

Decreasing Emissions and Fuel Consumption by coupling OBD and OBM data with AI

The Euro 7 standard requires continuous real-world emissions monitoring over the vehicle lifetime, creating new challenges for cost-effective sensor systems. This contribution presents a hybrid AI-based approach combining MOX sensor signals, vehicle operating data, and machine learning to enable precise and economically attractive on-board monitoring of nitric oxide emissions and fuel consumption.

POSTER PRESENTATIONS

7

SEMIH AKBULUT

IMSE, RWTH Aachen University

Robust NVH-Design of EDUs

Electrified powertrains introduce new challenges for noise, vibration and harshness design. In contrast to conventional combustion engine drivetrains, electric drive units are characterized by high frequency tonal excitations from the electric machine and gear mesh, which can disturb the customer and influence the purchase decision. Therefore, the NVH behavior of EDUs must be considered during product development. However, detailed simulation and optimization loops are time consuming and difficult to integrate into early design phases. Therefore, design guidelines are needed to support robust EDU designs without extensive optimization studies.

8

ANDRÉ KULZER

IFS, Universität Stuttgart

Predictive Powertrain Health Care

Modern powertrains are becoming increasingly complex, making it more difficult to identify aging or faulty components that affect efficiency and emissions. Intelligent monitoring systems based on data science methods can help detect failures early, classify system conditions, and enable predictive maintenance or adaptive control interventions. Potential applications include SCR systems, turbochargers, batteries, and other powertrain components. Digital twins based on physical, semi-physical, or data-driven models can be used for condition monitoring and fault detection. The project aims to evaluate suitable AI and data science approaches with regard to prediction quality, computational effort, scalability, and transferability. Selected methods will then be applied exemplarily to specific components in order to predict maintenance needs and identify complex fault patterns.

9

JANINA FICHTNER

ika, RWTH Aachen University

Scenario sampling for validating AI-based ADS – systematic analysis of necessary adaptations to sampling methods

AI-based driver assistance systems (ADS) pose new challenges for safety validation due to their data-driven behavior and the vast number of possible traffic situations. This research investigates the adaptation of existing scenario sampling methods for the validation of AI-based ADS. It aims to identify approaches that enable the selection of representative and safety-critical scenarios while maintaining efficient and comprehensive testing.

10

LENNART REIHER

ika, RWTH Aachen University

Taking University Research to the Road: How ika is developing, testing, and operating the karl. Research Vehicle

The Institute for Automotive Engineering (ika) has recently built a new research vehicle for automated and connected driving nicknamed karl. Operating an automated research vehicle is inherently difficult, especially for an academic institution: an automated driving software stack has to be developed, its functionalities have to be tested, a research vehicle has to be built, a testing approval has to be obtained, efficient operation processes have to be in place, etc.; all in a continual manner and revolving around modern software engineering practices. With this presentation, we plan to give honest insights into how ika as a university institute is developing, testing, and operating karl. and its automated driving system, from simulation over test tracks to public road traffic.

CONFERENCE SCHEDULE

Welcome & Introduction to the 35th Colloquium

08:30



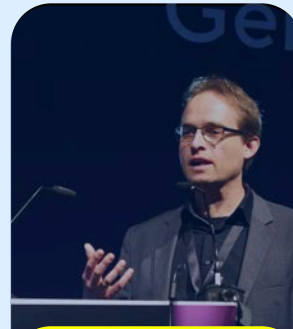
Univ.-Prof. Dr. rer. nat. Dr. h.c. mult
ULRICH RÜDIGER
Rector
RWTH Aachen University



Univ.-Prof. Dr.-Ing
LUTZ ECKSTEIN
Institute Director
ika, RWTH Aachen University



Univ.-Prof. Dr.-Ing
STEFAN PISCHINGER
Institute Director
tme, RWTH Aachen University



Univ.-Prof. Dr.
SEBASTIAN TRIMPE
Executive Director
AI Center, RWTH Aachen University

Opening Plenary Session

08:40



Dr.
MANFRED HARRER
President & Head of R&D Division
Hyundai Motor Group



CARSTEN HELBING
Co-CEO and COO
Rivian and Volkswagen Group
Technologies



TAKASHI UEHARA
President Powertrain
Toyota

PRESENTATIONS

Tuesday, October 6th, 2026

10:45 - 11:15

GROßER SAAL

LESESAAL

KONFITOREI

ERFRISCHUNGSRAUM

ICE I

Advanced E/E Platforms

AI Trends in Mobility

Commercial Vehicles

Lamborghini Temerario GT3, pure racing soul of a biturbo V8 engine

The intelligent Car

Causal Continuity: The Role of domain-shifted Foundation Models in the automotive Industry

Development of Hydrogen Engine Vehicles Integrated with Toyota's Hybrid System for Light Commercial Vehicles

D. Bizzarri, L. Bombace, L. Rizzi, P. Scarpato, A. Staine, E. Ursitti
Automobili Lamborghini

M. Tietze
BMW Group

F. Wegner
Mistral AI

Y. Ikeda, Y. Haruna, K. Ito, M. Toya, H. Ueura
Toyota Motor Corporation

11:15 - 11:45

Contributing to the Environment through Negative Emissions using ICEs with a Simple Exhaust System

Next evolution of a versatile iDM platform with high value 5th generation inverter

AI-driven forecasting of electric vehicle DC fast charging behavior

Multi-objective Optimization of Electric Drivetrains regarding Commonality Aspects for Diverse Truck Portfolios

K. Harada
Mazda Motor Corporation

M. Ishihara
BorgWarner, Inc

R. Doel, A. Chandra, W. Jones, C. Kersov, K. Rieger-Grothaus, A. Yerudkar
Shell Research

P. Hätscher
Daimler Truck AG

11:45 - 12:15

Improved Creep Life Prediction of Turbocharger Turbine Wheels Using Measured Operating Temperature and Grain Size Effect

Design of a PCB-Embedded GaN Power Module and Its Application in Next-Generation Hybrid Powertrains

FEV GenAISys: A Multi-Objective AI-Integrated Platform for Use-Case-Driven Virtual BEV Concept Development

Humanoid Chauffeur

A. Asano
Toyota Motor Corporation

Y. Ma, P. Hu, C. Yu, C. Lin, L. Guo, H. Wei, F. Zhao
Horse Powertrain Ltd.

C. Wellmann
RWTH Aachen University
B. Chen, X. Klingbeil, T. Plum, R. Savelsberg, L. Schäfers, M. Struth, A. Kothari - FEV
J. Andert - MMP, RWTH Aachen University

L. Eckstein - VDI e.V.
C. Peters, H. Vorjans, A. Wilcynski, L. Ostendorf - ika, RWTH Aachen University
S. Klautdt - fka GmbH

PRESENTATIONS

Tuesday, October 6th, 2026

GROBER SAAL

LESESAAL

KONDITOREI

ERFRISCHUNGSRaum

13:30 - 14:30

Mobility meets AI Plenary Discussion



TIM GUTHEIT
VP Technology &
Innovation Automotive
Infineon



WILL VAN DER AALST
Chief Scientist
Celonis



ANTONIO KRÜGER
CEO
DFKI

14:35 - 15:05

Strategy I

The digital transformation of the automotive sector - how can Europe get back in a lead position

M. Lemke
European Commission

H2 ICE

The Pre-ignition Experimental Development of a Cummins 6.7L Spark Ignited Direct Injection Hydrogen Engine

L. Liu
CUMMINS

AI based Development

Simulation Technology and Its Application to xEV Driving Control Development with AI Support

T. Kaminaga, H. Kaneko,
T. Morikawa
Toyota Motor Corporation

Drive Systems I

Huawei DriveONE: Full-stack solution for new energy vehicle power domain

J. Ghosh, C. Shi
Huawei Technologies Duesseldorf GmbH
C. Chen, X. Shi
Huawei Technologies Co, Ltd.

15:05 - 15:35

Germany's Productivity Imperative: Where AI and Advanced Tech Create Real Shopfloor Leverage

J. Berking, T. Braun,
H. Engelstädter, S. Huber
Oliver Wyman GmbH

Injecton System Design for Homogeneous and Lean Combustion in Hydrogen Engines

A. Yamaguchi, J. Weber,
D. Queck, J. Zanger
DENSO CORPORATION

Next-Generation CAE: Leveraging Data-Driven Workflows for Virtual Development

M. Blomberg, D. Lückmann,
B. Morcinkowski - FEV Europe GmbH
H. Habib - Key Ward GmbH
M. Lückerath - tme, RWTH Aachen University

Challenges in Drive System Development for Autonomous Vehicles - Illustrated by the Volkswagen Nutzfahrzeuge ID. Buzz AD

N. Hartnack, M. Bigalke, C. Grothe
M. Schendel, W. Siebert
Volkswagen Nutzfahrzeuge

15:35 - 16:05

A new compass - New Business Models for Automotive Suppliers

C. Koehler
H&Z Group

SubZero Cold Start of a Novel 6.6L H2 PFI V8 Engine: Experimental Assessment of Coordinated Ignition and Injection Strat

R. Russo, R. Aprosio, G. Gallo,
B. Maisola, M. Ravazzolo,
N. P. Sacco, T. Spedicato,
G. Stirpe, A. Zingariello - Dumarey Automotive Italia
A. Di Nieri - Dumarey Softronix Srl

How Expensive Is AI Coding? Measuring Energy and Emissions

T. N. Vartziotis, L. Casella,
M. Herrnberger, M. Keckeisen
TWT Science & Innovation

Permanent magnet synchronous machine with amorphous core and heavy-rare-earth free magnets for traction applications

M. Schröder, D. Gerstgarbe - FEV
H. Currimbhoy - mmp, RWTH Aachen University

PRESENTATIONS

Tuesday, October 6th, 2026

GROßER SAAL

LESESAAL

KONDITOREI

ERFRISCHUNGSRaum

ICE II

Strategy II

AI Application

Automotive Start-Up

Start-Up Pitches and discussion featuring contributions from:

The new Mercedes-Benz V8 M177 Evo: Concept and Engineering Features of a High-Performance V8 to Meet Future Emission Reg

F. Weinert, H. Buchfink, T. Eder, S. Henke, W. Holly, S. Müller, S. Schlegel, S. Schmitt, R. Weller, F. Weinert, M. Werner
Mercedes-Benz AG

Humanoid Robots 2.0

J. Zinn, W. Bernhart, C.-S. Ernst, T. Kirschstein
Roland Berger GmbH

From Software to Intelligent Experience: Agentic AI and Virtualization Accelerating SDVs

F. Bankoley
Robert Bosch GmbH

Making Invisible Losses Measurable: EMF-Based Energy Intelligence for Electric Vehicles
O. Betzaleli - V-Hola

Beyond Generative AI: The emerging role of Industrial AI to Solve Complex Physical Engineering Challenges
S. Shepherd - Monumo

From Vehicle Fault Data to Preventive Action: AI and Knowledge Graphs in Catena-X
J. Kukulies - textelligence GmbH
K. Wangerow - PRS Technologie GmbH
S. Oelsner - BMW AG

Accelerating Open-Source Innovation in Automated Driving
T. Woopen - Thinking Cars GmbH

and more...

16:35 - 17:05

17:05 - 17:35

17:35 - 18:05

Boxer meets Battery – The Next Stage of the 9A3 Engine Family in the new 911 Turbo S

M. Wunder, T. Fruth, C. Pleuß, F. Steimle, T. Wasserbäch, M. Wessels, M. Wunder
Dr. Ing. h.c. F. Porsche AG

China's Fast Lane vs Europe's Engineering: How AI Could Redraw the Race

M. Brandt
strato7

Large-Scale Demonstration and AI – Taking the next steps on automated driving in Europe

A. Etemad
Volkswagen AG

The Effect of Mid-Level Ethanol Blends on Fuel Economy, Performance, Emissions, Reliability, and Well-to-Wheel CO2

N. Matsubara, M. Aoki, K. Kodama, M. Kojima, T. Koyama, Y. Ochi, K. Sugata, K. Tomoda
Toyota Motor Corporation

Transformation by Design: Shaping Human-Centric R&D Organizations, Augmented by AI

P. Glusk
FEV Consulting

Autonomous Driving in Europe: From testing to type-approval

F. Clos
TÜV Rheinland Kraftfahrt GmbH

PRESENTATIONS

Wednesday, October 7th, 2026

	GROßER SAAL	LESESAAL	KONDITOREI	ERFRISCHUNGSRAUM
	Charging & Battery Systems I	Autonomous Shuttle	AI in Fleet	Sustainability
08:00 - 08:30	<p>Thermal Optimisation Approaches to Reduce Heat Losses during Fast Charging</p> <p>J. Krings, S. Beisser, P. Steinmetz, P. Ziegler - Daimler Truck H.-C. Reuss - FKFS Stuttgart</p>	<p>xCritic: A Learned Scene-Agnostic Critic for Autonomous Driving Evaluation</p> <p>M. Gier Zoox</p>	<p>Battery Foundation Models and Agentic AI for Scalable E-Bus Fleet Optimization</p> <p>U. Genc, C. Kurtulus, C. Yavas Eatron Technologies</p>	<p>The strategic momentum of circularity – how it reshapes the automotive industry</p> <p>A. Klos EFESO MANAGEMENT CONSULTANTS</p>
08:30 - 09:00	<p>Megawatt Charging Experience</p> <p>D. Liebig, A. Chmura, F. Heider Shell Global Solutions (Deutschland) GmbH</p>	<p>From Heilig’s Blechle to the Container: How Virtual Testing Bridges Vehicle and Cloud</p> <p>N. Eckstein, A. Osterrieder Bertrandt Group</p>	<p>Holistic TCO-Based Optimization for Mixed ICEV/BEV/FCEV Heavy-Duty Fleet Operations</p> <p>T. Koch, L. Eckstein Ika, RWTH Aachen University</p>	<p>Mastering the EU powertrain transformation: new business opportunities and ramp-up strategies.</p> <p>L. Mauler, L. Hoffmann, C. Prié Porsche Consulting GmbH</p>
09:00 - 09:30	<p>High Voltage, High Risk? Functional Safety in 800 V+ Systems</p> <p>L. Fautz, M. Balah, G. Bilkei-Gorzo fka GmbH</p>	<p>Small but mighty - Closing the gaps in your mobility network</p> <p>M. Zwick INYO MOBILITY GMBH</p>	<p>A re-calibration of Robotaxi: operational model, technical breakthrough, and supply chain</p> <p>Y. Yang - Yole Group</p>	<p>Challenges and Opportunities in Hydrogen Fuel Cell Technology : Insights from Real-World Data</p> <p>D. Kim HYUNDAI MOTOR COMPANY</p>

PRESENTATIONS

Wednesday, October 7th, 2026

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Future Powertrains

Fuel Cell I

AI driven Functions I

Drive Systems II

Technology Scaling in xEV Electrification

Key factors for a high performance FC stack – efficiency & robustness as drivers for reliable systems up to 500 kW

Multi Attribute Optimization of an Electric Vehicle Chassis Architecture for Dynamics, Durability, and NVH Performance

The all new Electric Drivetrain from Mercedes-AMG

10:00 - 10:30

K. Jang
HYUNDAI MOTOR COMPANY

J. Kraft, A. Beeckmann, F. Claß,
P. Epple, N. Zsiga
EKPO Fuel Cell Technologies GmbH

A. Carlitz, S. Chakraborty,
K. Krishnamoorthi, D. Lickfold,
M. Siddegowda
Lucid Motors

D. Blanusa, T. Gödecke
Mercedes-AMG GmbH

Intelligent Efficiency and Maximum Performance of the Mercedes-Benz EQS

The all new FC system for HD trucks: Significant TCO improvements due to its dedicated long-haul truck layout & design

AI and Camera-Based In-Cabin Sensing: Shaping the Future of Vehicle Interiors

Temperature sensor virtualization to improve cost-effectiveness of electric machines

10:30 - 11:00

M. Weiss, J. Bartels, C. Dörr,
L. Henle, D. Hopp, G. Paul,
O. Vollrath, N. Waldbüßer
Mercedes-Benz AG

T. Braun, J. Blum, N. Held,
S. Hollnaicher, N. Loughlan,
N. Weidler
cellcentric

T. Rehfeld
Aptiv

C. Hahn, D. Gross, M. Gupta,
R. Keck, S. Paulus, M. Schenk,
Y. Xu
Robert Bosch GmbH

Plenary Session



SHEN YUAN
Vice President and CTO
Geely



R. VELUSAMY
President Automotive Business
Mahindra



ANDREAS NAUERZ
CPO
IONOS

11:05 - 12:35

PRESENTATIONS

Wednesday, October 7th, 2026

GROßER SAAL

LESESAAL

KONDITIONEIREI

ERFRISCHUNGSRAUM

Fuel Cell II

Battery Systems II

AI driven Functions II

Hybrid Powertrains

Customer Use Cases that Verify Market Need for New Technology at Scania

Luce: The Heart of Ferrari's Electric Future – Battery Technology as a Performance Enabler

Intelligent AI in Safety-Critical Embedded Software Development

GHG and local emission assessments for a democar running with a MtG fuel, a Hybrid Powertrain and an innovative ATS

T. Sandberg
Scania CV AB

E. Ligabue
Ferrari

B. O'Steen, S. Judge, N. Reinke,
M. Story, O. Tosh
Nexteer Automotive

C. Chaillou, C. Chaillou, E. Laigle,
T. Sarica - Aramco
V. Gaste - AVL LMM
M. Olteanu - HORSE Technologies
O. Coureau - RENAULT SAS

Collaborating to Advance Hydrogen Fuel Cell Technology

AI for Efficient Traction Battery Lifecycle Development and Diagnostics

Reshaping ADAS Organizations for an End-to-End AI World: Aligning Regulation, Partnerships, and Technology

The Evolution of Blue Core: Integrating High-Efficiency Combustion with Advanced Electrification

V. Chomel
Beyond Aero

O. Breuer, F. Eitel, M. Gianoglio
Bernardi, J. Michaelis
Opel Automobile GmbH /
Stellantis

L. Bublitz
P3 Consulting GmbH

G. Kirkpatrick
Changan UK R&D Centre

H2 Coach - Technology carrier: First Setra touring coach powered by fuel cell

Advancing Battery and EV Technology: Hyundai's Strategic Innovation

From Words to World: Leveraging the Power of AI for Scenario Generation

High Efficiency Range Extender (REX) and Dedicated Hybrid Engine (DHE) Solutions for Passenger Cars and Heavy Duty Vehicles

D. Portmann
Daimler Buses GmbH
H. Mayer
Daimler Buses GmbH

J. Seo
HYUNDAI MOTOR COMPANY

P. Peltzer, S. Klaudt
fka GmbH

M. Wieser
AVL List GmbH

Experimental and simulative investigation on PEM Fuel Cell degradation mechanisms under automotive freeze start endurance

Analysis of a Lithium-Metal Battery Cell for eVTOL Applications

Transfer Virtual Validation from AD/ADAS to Powertrain

Learning Powertrain Intelligence: AI-driven REEV Control over Hardware Complexity

M. Schwarz, A. Albert - BMW Group
R.-A. Eichel -Forschungszentrum
Jülich GmbH, RWTH Aachen
University

J. Küpper, A. Averberg,
S. Beschnitt, H. Löbbberding,
S. Payandeh, M. Rudolph,
M. Stapelbroek
FEV Europe GmbH

J. Pannek, N. Schade - ITL, TU
Braunschweig
S. Ehlers, T. Seel, B. Volkmann -
IMES, Leibniz University
Hannover

M. Sens, A. Fandakov,
J. Mickleit, P. Stracke
IAV GmbH

13:45 - 14:15

14:15 - 14:45

14:45 - 15:15

15:15 - 15:45

CLOSING PLENARY SESSION

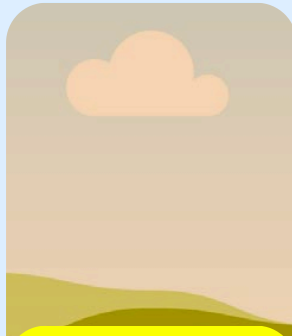
Closing Plenary Discussion:

From Hype to Impact: AI in Automotive Development and Organizations

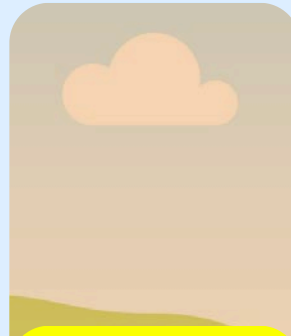
15:50



MARCO LICCARDO
Chief Technology & Digital Officer
IVECO



FRANK KALECK
Director Industry Advisory Automotive
Microsoft



PETER WALDMANN
VP Automated Driving
BMW AG



**Dr.
PETER HOLDMANN**
Chief Technical Officer
ZF

Closing Remarks



Univ.-Prof. Dr.-Ing
LUTZ ECKSTEIN
Institute Director
ika, RWTH Aachen University



Univ.-Prof. Dr.-Ing
STEFAN PISCHINGER
Institute Director
tme, RWTH Aachen University

End of Colloquium

16:55



VEHICLE DEMONSTRATIONS

SCAN ME



The way we travel is constantly evolving. Mobility solutions are continuously developed to take us from A to B faster, further, more comfortably, and increasingly sustainably. At the Aachen Colloquium, this progress becomes tangible: in front of the Eurogress, you'll have the chance to experience innovative vehicle concepts firsthand. Test drives allow you to explore new technologies and future-oriented solutions for individual transportation – especially in urban environments, where the demand for smart and sustainable mobility is greater than ever.

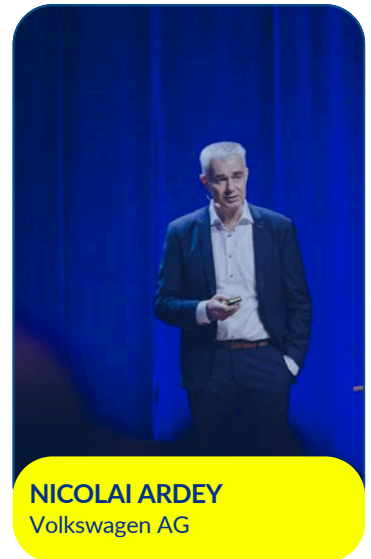
HERE'S HOW TO PARTICIPATE:

- 1 Register as a participant for the Colloquium.
- 2 Upon arrival at the Kurhaus Aachen, head to the driving event registration desk in the foyer.
- 3 Present a valid driving license – international participants must provide a German translation of their license.
- 4 Once verified, you'll receive access to our event platform, where you can book individual test drives with the participating vehicle manufacturers.

PRO TIP: SLOTS FILL UP FAST – THE SOONER YOU CHECK IN AND REGISTER ON-SITE, THE MORE OPTIONS YOU WILL HAVE!

THANK YOU

We sincerely thank the Advisory Board of the Aachen Colloquium for their valuable support, dedication, and expertise. Your commitment plays a crucial role in shaping the quality and success of this event. We deeply appreciate your guidance and contributions, which help drive innovation and meaningful discussions within our community.



NICOLAI ARDEY
Volkswagen AG



CHRISTIAN ENDERLE
Porsche Consulting



AXEL GERN
Aeva Technologies



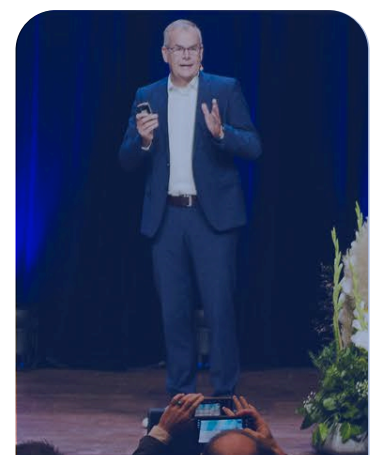
RALF HERTWICH
NVIDIA



PHILIP KOEHN
BMW Group



GERRIT MARX
CNH Industrial



KARSTEN WILBRAND
Shell



TRADITIONAL BANQUET

SCAN ME



The traditional banquet on Tuesday evening presents a feast of culinary delights set in the historic buildings around the Aachen marketplace. This enchanting evening offers a unique blend of exquisite cuisine and restaurants for every taste, providing the perfect backdrop for meaningful interactions. Join your business partners in a relaxed atmosphere, where you can reflect on the day's experiences and deepen your professional relationships. Additionally, this gathering offers an excellent opportunity to enhancing your business prospects and create new contacts.

EVENING OF CONNECTION, CULTURE & CONVERSATION

This year, in addition to our traditional seated dinners. We are excited to introduce a more agile and interactive format: the banquet at Karls Café and the Centre Charlemagne. Between the stunning Aachen Cathedral and the town hall, Karls Café is far more than just a café. It sits within the Centre Charlemagne, the city's historical museum, and offers a unique blend of cultural ambiance and modern elegance.

CALL FOR PRESENTATION 2027

Next year the Aachen Automotive Colloquium will take place for the 36th time. You are warmly invited to submit a lecture proposal on one of the main topics. You will find the submission form on our website from December 2026:

www.aachen-colloquium.com

February 2027

DEADLINE FOR ABSTRACTS

Submit your abstract online by February 15th to be considered as a speaker. Submissions will be reviewed by the scientific committee. Presentations must be held in English.

April 2027

NOTIFICATION OF AUTHORS

Authors will receive feedback on their submissions by mid to late April. Accepted speakers will receive further instructions for registration and preparation of their presentations for the Aachen Automotive Colloquium 2027.

September 2027

DEADLINE FOR SUBMISSION

Final presentation files must be uploaded by September. This ensures proper technical setup and allows organizers to prepare the event schedule. Late submissions may not be accepted for presentation.

October 2027

ON-SITE PRESENTATION

All accepted contributions will be presented in person at the Aachen Colloquium, taking place from **October 4-6, 2027** at the Kurhaus Aachen.

MAIN TOPICS 2027

VEHICLE & MOBILITY CONCEPTS

- Data-driven Development Processes: Processing, Use, Protection and Evaluation
- Chassis & Vehicle Dynamics
- Functional Safety
- Energy & Thermal Management
- Sustainability, Recycling, LCA & Balances
- New Vehicles, Architectures & Interior Concepts
- Strategies and Business Models of the Automotive Industry: Sustainable / Digital / Multimodal / ...
- Zero-Impact Emission Concepts
- X-by-Wire

DIGITALIZATION & AUTOMATION

- Databases & AI, Traffic Simulation and Scenarios
- Digital Development Process: Digital Twin, AI, Methods and Simulation
- Driver Assistance & Connected Driving
- ADAS, C Driving, Automated Driving (Level 3+)
- Innovative E/E Vehicle Architectures
- Sensors & Perception of Environment in Vehicles and Infrastructure
- Software Development for the Automobile (incl. Cyber Security)
- Connected and cooperative driving

DRIVE TECHNOLOGIES

- Vehicle Electrical Systems & 48V Technologies
- Fuel Cells & Electrolysis
- Electrification & Hybridization
- Alternative Fuel Application
- High Efficiency Combustion Processes
- Energy & Thermal Management
- Commercial vehicle and off-road drive technologies

AI TRENDS IN MOBILITY & AI-ENABLED FUNCTIONS

- AI for mobility research & development
- Business cases for AI products
- Open-source activities
- The potential of physical AI for the European market
- Predicting crashes by big data and AI
- AI driven chassis functions, driven In-car experience
- AI for in-cabin sensing
- AI-supported combustion optimization
- End-To-End AD and ADAS
- Optimizing industrial fleets with AI
- AI traffic management

AAC 2026

AACHEN ACOUSTICS COLLOQUIUM

November 23 – 25, 2026

Aachen, Germany

Join us for insightful talks from leading experts in acoustics! Presentations, exhibition and networking opportunities await you.

RW DRIVING PATTERNS

Derivation	Description	Goal Function (O) Objective	Weight	Constraint
9	Constant speed, gear i , highmax. engine speed	Constant speed in gear i with highmax. engine speed	S (4) O (5)	[6] ○
10	Constant speed, gear i , aggressive acceleration	Constant speed in gear i and downshift to gear $i - 1$, aggressive acceleration	S (10) O (5, 1)	[9] X
12	Gear shift, i to $i - 2$, for const. speed	Constant speed in gear i and downshift to gear $i - 2$, aggressive acceleration	S (10) O (5, 1)	- X
13	Intermittent throttle control, gear i	Constant speed in gear i , intermittent throttle control, fluctuating engine speed	S (6) O (9)	[6] X
14	Deceleration, gear i	Constant speed in gear i , releasing throttle control, deceleration	S (5) O (1-5)	[6] ○



Register now!

www.aachen-acoustics-colloquium.com

FEV

fka

HEAD acoustics

REGISTRATION & CONFERENCE

REGISTRATION PROCEDURE

- 1 Registration
www.aachen-colloquium.com/registration
- 2 Receive confirmation by e-mail
- 3 Settle the invoice
- 4 Registration completion after Receipt of payment

PARTICIPANT FEE

All prices are **exclusive** of VAT

Full Participation on site: 1.690,- €

For groups of 5 or more people from the same company, we offer a 10% discount.

Day tickets for flexible participation:

include conference access, catering and event materials. The banquet can be added for 100,-€.

Day 1 Ticket 1115,- €

Day 2 Ticket 900,- €

Online: 845,- €

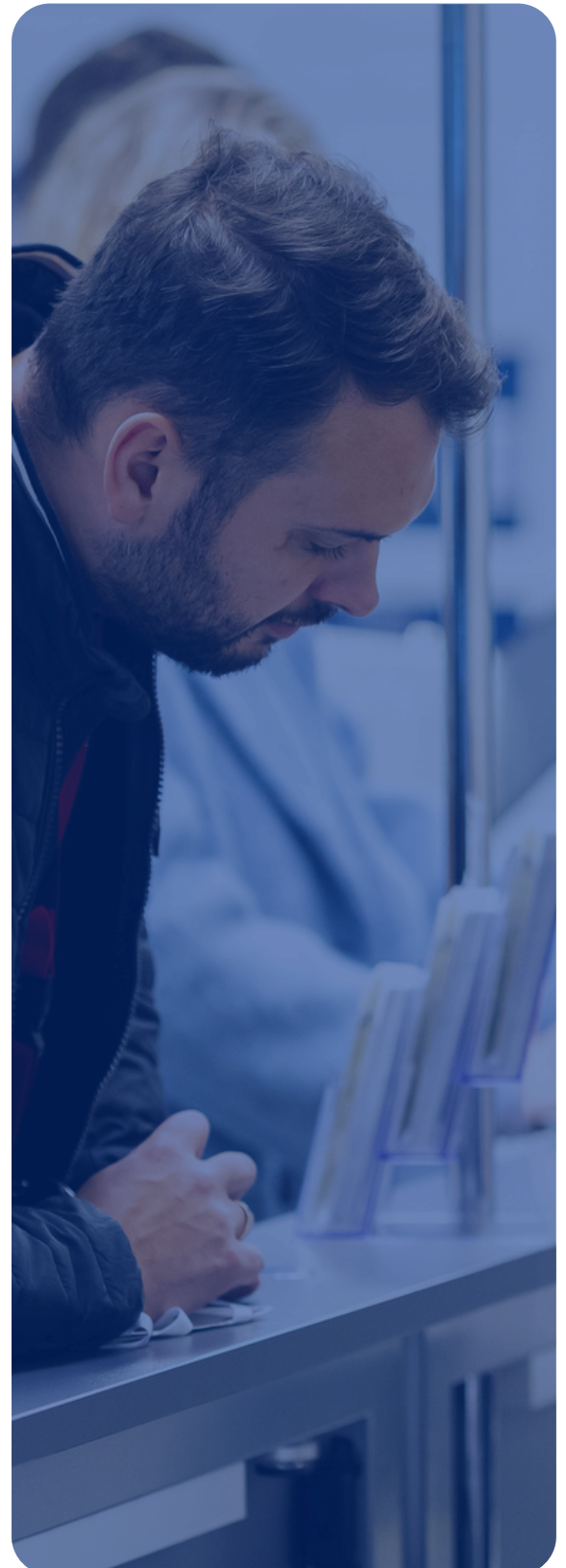
University members: 50% discount on all options

CONFERENCE DOCUMENTS

Licences for single or multiple use of the complete conference proceedings as well as individual presentations can be ordered via www.aachen-colloquium.com/proceedings

CONFERENCE OFFICE

Monday, Oct. 5th, 2026	04:00pm - 07:00pm
Tuesday, Oct. 6th, 2026	07:30am - 06:00pm
Wed., Oct. 7th, 2026	07:30am - 05:00pm



GENERAL INFORMATION

ORGANIZER

Aachener Kolloquium
Fahrzeug- und Motorentchnik GbR
Steinbachstraße 7
52074 Aachen
Germany

SCIENTIFIC MANAGEMENT

Univ.-Prof. Dr.-Ing. Lutz Eckstein
Director ika, RWTH Aachen University

Univ.-Prof. Dr.-Ing. Stefan Pischinger
Director tme, RWTH Aachen University

Co-organized with
Prof. Dr. rer. nat. Holger Hoos
Executive Director Center for Artificial Intelligence,
RWTH Aachen University

ORGANIZATION

Sandra Bolle
Michael Funcke
Marco Günther
Ferris Herkenrath
Katrin Himmelseher
Sara Portz
Jonas Schütz

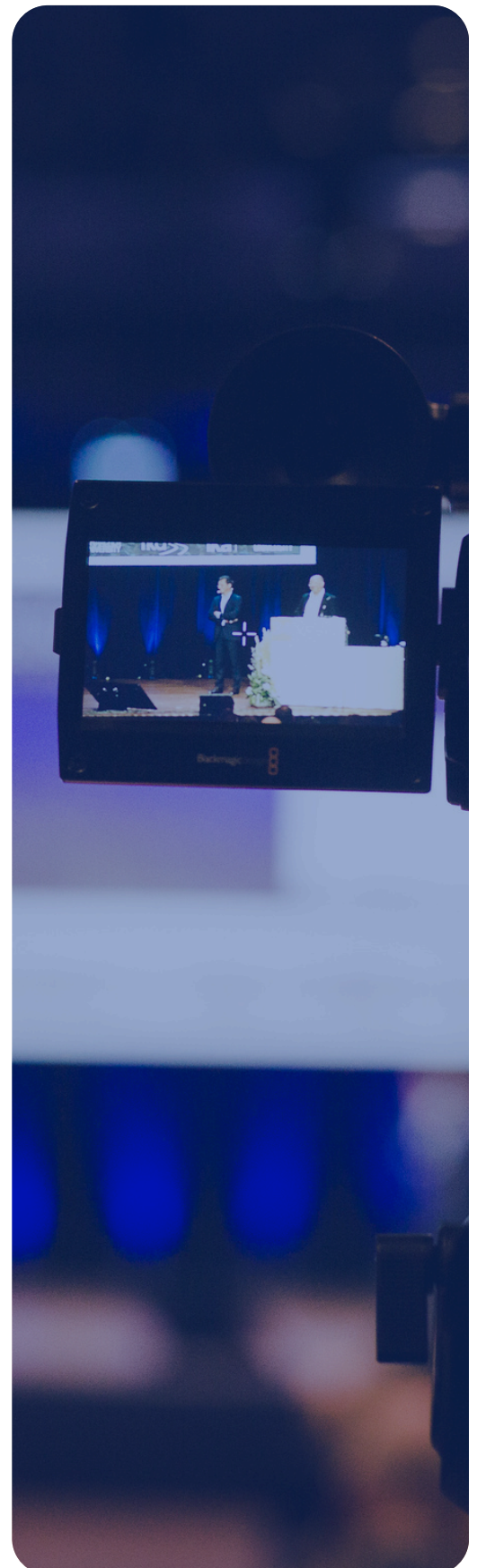
CONTACT

General +49 241 8861 205
Registration +49 241 8861 120
Presentation Program +49 241 80 96241
Technical Exhibition +49 241 80 48021
Other Questions info@aachen-colloquium.com

DESIGN PROGRAM BOOKLET & LOGO

Franziska Goffart

General Information



SPEAKER & SESSION CHAIR

Asano, Akihiro
TOYOTA MOTER CORPORATION
akihiro_asano@mail.toyota.co.jp

Bankoley, Florian
Robert Bosch GmbH
ines.benArbia@de.bosch.com

Berking, Johannes
Oliver Wyman GmbH
johannes.berking@oliverwyman.com

Betzaleli, Oren
V-Hola
oren@v-hola.com

Bizzarri, Davide
Automobili Lamborghini
davide.bizzarri@lamborghini.com

Blanusa, Denis
Mercedes-AMG GmbH
denis.blanusa@mercedes-benz.com

Blomberg, Michael
FEV Europe GmbH
blomberg@fev.com

Brandt, Max
strato 7
max.brandt@strato7.com

Braun, Tillmann
cellcentric
tillmann.braun@cellcentric.net

Breuer, Oliver
Opel Automobile GmbH / Stellantis
oliver.breuer@stellantis.com

Bublitz, Lucas
P3 Consulting GmbH
Lucas.bublitz@p3-group.com

Cahyanto, Gregorius Krisna
Esslingen University of Applied Sciences
gregorius.cahyanto@hs-esslingen.de

Carlitz, Andreas
Lucid Motors
andreasarlitz@lucidmotors.com

Chaillou, Christophe
Aramco
chaillou.2016@gmail.com

Chomel, Valentin
Beyond Aero
charlotte.semaan@beyond-aero.com

Clos, Felix
TÜV Rheinland Kraftfahrer GmbH
felix.clos@de.tuv.de

Doel, Robert
Shell Research
robert.doel@shell.com

Eckstein, Lutz
ika, RWTH Aachen University
lutz.eckstein@ika.rwth-aachen.de

Eckstein, Nic
Bertrandt Group
nic.eckstein@bertrandt.com

Etemad, Aria
Volkswagen AG
aria.etemad@volkswagen.de

Fautz, Laura
fka GmbH
laura.fautz@gmx.de

SPEAKER & SESSION CHAIR

Fichtner, Janina
ika, RWTH Aachen University
janina.fichtner@ika.rwth-aachen.de

Genc, Umut
Eatron Technologies
umut.genc@eatron.com

Ghosh, Jyotishman
Huawei Technologies Duesseldorf GmbH
jyotishman.ghosh12@huawei.co

Gier, Max
Zoox
x-mgier@zoox.com

Glusk, Patrick
FEV Consulting
glusk@fev.com

Gutheit, Tim
Infineon Technologies

Hahn, Christian
Robert Bosch GmbH
christian.hahn3@de.bosch.com

Harada, Koichiro
Mazda Motor Corporation
harada.koui@mazda.co.jp

Harrer, Manfred
Hyundai Motor Group

Hartnack, Nils
Volkswagen Nutzfahrzeuge
nils.hartnack@volkswagen.de

Hätscher, Philip
Daimler Truck AG
philip.haetscher@daimlertruck.com

Speaker Information

Helbing, Carsten
Rivian and Volkswagen Group Technologies

Holdmann, Peter
ZF Group

Ikeda, Yuto
Toyota Motor Corporation
yuto_ikeda_aa@mail.toyota.co.jp

Ishihara, Mitsuru
BorgWarner. Inc
mishihara@borgwarner.com

Jang, Kiyoungh
HYUNDAI MOTOR COMPANY
kyjang@hyundai.com

Kaminaga, Takashi
Toyota Motor Corporation
takashi_kaminaga@mail.toyota.co.jp

Kim, Duckwhan
HYUNDAI MOTOR COMPANY
dwkim77@hyundai.com

Kirkpatrick, Gary
Changan UK R&D Centre
gary.kirkpatrick@changanuk.com

Klos, Alexander
EFESO MANAGEMENT CONSULTANTS
a.klos@tsetinis.com

Koch, Theo
Ika, RWTH Aachen University
theo.koch@ika.rwth-aachen.de

Koehler, Christian
H&Z Group
christian.koehler@hz.group

SPEAKER & SESSION CHAIR

Kraft, Juergen
EKPO Fuel Cell Technologies GmbH
Juergen.Kraft@ekpo-fuelcell.com

Krings, Jochen
Daimler Truck
jochen.krings@daimlertruck.com

Krüger, Antonio
Deutsches Forschungszentrum für Künstliche
Intelligenz GmbH

Kukulies, Jan
textelligence GmbH
j.kukulies@textelligence.de

Küpper, Jannis
FEV Europe GmbH
kuepper_j@fev.com

Lemke, Max
European Comission
max.lemke@ec.europa.eu

Liccardo, Marco
IVECO

Liebig, Dorothea
Shell Global Solutions (Deutschland) GmbH
Dorothea.Liebig@shell.com

Ligabue, Elena
Ferrari
Elena.Ligabue@ferrari.com

Liu, Lei
CUMMINS
le255@cummins.com

Ma, Yongquan
Horse Powertrain Ltd.
Yongquan.Ma1@horse-powertrain.com.cn

Matsubara, Naoyoshi
Toyota Motor Corporation
naoyoshi_matsubara@mail.toyota.co.jp

Mauler, Lukas
Porsche Consulting GmbH
lukas.mauler@porsche-consulting.com

May, Matthias
LTT, RWTH Aachen University
matthias.mai@imse.rwth-aachen.de

Muntzinger, Antje
Hochschule für Technik Stuttgart
antje.muntzinger@hft-stuttgart.de

Nauerz, Andreas
IONOS

O'Steen, Bobby
Nexteer Automotive
Bobby.OSteen@nexteer.com

Palocz-Andresen, Michael
Leuphana Universität
michael.palocz-andresen@leuphana.de

Pannek, Jürgen
TU Braunschweig
j.pannek@tu-braunschweig.de

Peltzer, Patrick
fka GmbH
patrick.peltzer@fka.de

SPEAKER & SESSION CHAIR

Pischinger, Stefan
tme, RWTH Aachen University
pischinger_s@tme.rwth-aachen.de

Portmann, Dominique
Daimler Buses GmbH
dominique.portmann@daimlertruck.com

Rehfeld, Timo
Aptiv
timo.rehfeld@aptiv.com

Reiher, Lennart
ika, RWTH Aachen University
lennart.reiher@ika.rwth-aachen.de

Rüdiger, Ulrich
RWTH Aachen University
rektor@rwth-aachen.de

Russo, Raffaele
Dumarey Automotive Italia
raffaele.russo@dumarey.com

Sandberg, Tony
Scania CV AB
tony.sandberg@scania.com

Schmidt, Axel
Leuphana Universität

Schröder, Michael
FEV
schroeder_mi@fev.com

Schwarz, Markus
BMW Group
Markus.bf.schwarz@bmw.de

Sens, Marc
IAV GmbH
marc.sens@iav.de

Seo, Jeonghun
HYUNDAI MOTOR COMPANY
jeonghun.seo@hyundai.com

Shen, Yuan
Geely Holding Group

Shepherd, Simon
Monumo
simon.shepherd@monumo.com

Tietze, Martin
BMW Group
martin.tietze@bmw.de

Trimpe, Sebastian
AI Center, RWTH Aachen University
office@dsme.rwth-aachen.de

Uehara, Takashi
Toyota

Van der Aalst, Wil
RWTH Aachen University / Celonis

Van der Oetelaar, Jeroen
DAF

Vartziotis, Tina Nepheli
TWT Science & Innovation
tina.vartziotis@tw-t-gmbh.de

Velusamy, R.
Mahindra & Mahindra Ltd.

Waldmann, Peter
BMW

SPEAKER & SESSION CHAIR

Wegner, Felix
Mistral AI
felix.wegner@mistral.ai

Zinn, Jonas
Roland Berger GmbH
jonas.zinn@rolandberger.com

Weinert, Frank
Mercedes-Benz AG
frank.weinert@mercedes-benz.com

Zwick, Marcus
INYO MOBILITY GMBH
marcus.zwick@inyo-mobility.com

Weiss, Michael
Mercedes-Benz AG
michael.m.weiss@mercedes-benz.com

Wellmann, Christoph
mmp, RWTH Aachen University
wellmann@mmp.rwth-aachen.de

Wieser, Martin
AVL List GmbH
martin.wieser@avl.com

Woopen, Timo
Thinking Cars GmbH
woopen@thinking-cars.de

Wunder, Matthias
Dr. Ing. h.c. F. Porsche AG
matthias.wunder@porsche.de

Yamaguchi, Akichika
DENSO CORPORATION
akichika.yamaguchi.j2z@jp.denso.com

Yang, Yu
Yole Group
yu.yang@yolegroup.com

Don't miss a thing:



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