

Automated Driving 2022

Mobility and Vehicle Concepts
of Tomorrow

5 – 6 April 2022

Wiesbaden, Germany or
virtually via live stream

Hybrid event

Your choice:

Participate on site
or virtually via
live stream

KEYNOTE LECTURES

Apex.AI / Continental

Automated Driving: Mobility and Vehicle Concepts of Tomorrow

- / SITUATION RECOGNITION AND ANALYSIS
- / AUTOMATED DRIVING DECISIONS
- / NEW VEHICLE AND INTERIOR CONCEPTS
- / MOBILITY EXPERIENCE AND BUSINESS MODELS

IN FOCUS

Into the future with new driving experiences
through automation



Dr. Alexander Heintzel
Editor-in-Chief
ATZ | MTZ Group, Springer Nature

Welcome

Mobility as a prerequisite for playing an active part in social life must be redesigned and expanded, both conceptually and commercially. The basis for this is automated driving, which will open up new opportunities for innovative vehicle concepts and intermodal and multimodal transport. The key challenges here are greater traffic safety, improved digital on-demand availability, and a new quality of sustainability.

But automated driving is not possible without sensor fusion, powerful computer technology, AI, and V2X communication. If we are to create attractive solutions for every mobility purpose, we will need close collaboration between vehicle and electronics developers.

The 8th International ATZ Congress “Automated Driving” addresses the current developments and conditions with presentations from Europe, Asia, and America in a constructive dialogue.

We look forward to your participation in the congress.

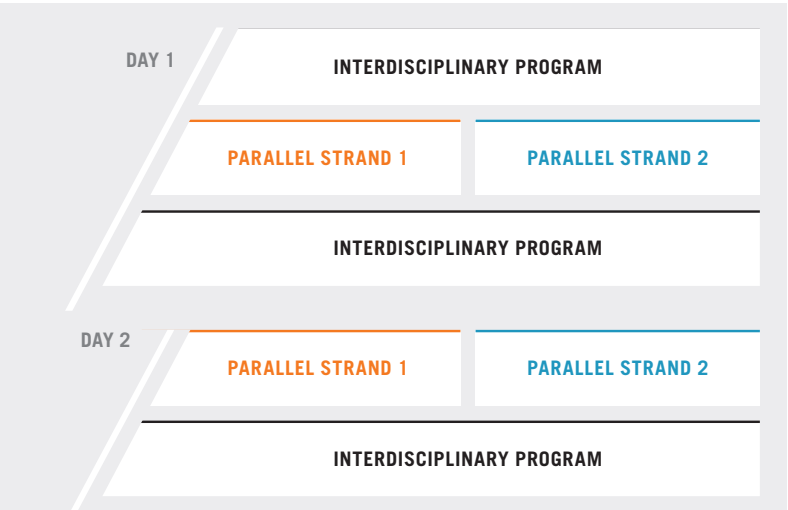
On behalf of the Scientific Advisory Board

Your Corona protection concept

In order to ensure that the ATZlive congress is safe and successful for all participants, even in times of Corona, we have drawn up a wide-ranging hygiene protection concept and are making detailed arrangements with the event partners. If you would prefer to participate virtually in the event for health reasons or due to travel restrictions, this year we will offer you a live stream with Q&A function, 1:1 video chat with participants and other useful functions in parallel.

Automated driving

Automated driving helps to prevent accidents. What is more, AI-assisted robotic cars also form the basis for data-driven business models at OEMs. In order to be successful, concepts for future mobility solutions need to be developed from the perspective of user groups, urban and rural regions, and targeted business models. The focus must be on road safety and efficient performance, as well as on ecological, economic, and social sustainability. As an information and communication platform, the International Congress “Automated Driving” is dedicated to the key aspects of the mobility transformation.



Accompanying exhibition on both days



Scientific Advisory Board

Our Scientific Advisory Board, which is made up of prominent figures from the relevant field, provides support during the planning phase of the congress and helps to identify suitable topics.

With its expertise the board has made a valuable contribution to the choice of themes for the lecture program.



**Prof. Dr.
Prof. h.c. Dr. h.c.
Torsten Bertram**
TU Dortmund University

Scientific Director of the Congress

Maria Anhalt
Elektrobit Automotive GmbH

Dr. Thomas Dieckmann
ZF Group

Dr. Robert Fuchs
JTEKT Corporation

Simon Fürst
BMW Group

David Gagliardi
Pininfarina Deutschland GmbH

Dr. Karl-Heinz Glander
Aptiv Services Deutschland GmbH

Christoph Hartung
ETAS GmbH

Dr. Alexander Heintzel
Springer Nature

Dr. Andree Hohm
Continental Teves AG & Co. oHG

Jörg Hölzig
EDAG Engineering GmbH

Frank Leimbach
DEKRA e. V.

Dr. Johannes Liebl
Editor-in-Charge ATZ | MTZ Group

Georges Massing
Mercedes-Benz AG

Steffen Schmidt
IPG Automotive GmbH

Dr. Peter Schöggli
AVL List GmbH

Winfried Schultalbers
IAV GmbH

Tino Schulze
dSPACE GmbH

Walter Schwertberger
MAN Truck & Bus SE

Prof. Andre Seeck
Federal Highway Research Institute, (BAST)

Dr. Andreas Teuner
ZF Group

09:15 **Welcome and opening of the congress**
Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group

09:30 – 10:30, Plenum

KEYNOTE LECTURES I

Moderation: Prof. Dr. Prof. h.c. Dr. h.c. Torsten Bertram,
TU Dortmund University

09:30 **KEYNOTE**
The Future of Automated Driving
Speaker inquired

10:00 **KEYNOTE**
Vision and Reality: Automated Driving
Speaker inquired

10:30 Refreshment break with coffee and tea in the exhibition area

11:00 – 12:30, Parallel Strand I – Room 1

ARCHITECTURES & STANDARDIZATION

Moderation: Maria Anhalt, Elektrobit Automotive GmbH

- 11:00** **Progress on the AUTOSAR Adaptive Platform for Intelligent Vehicles**
Rinat Asmus, Chairperson, AUTOSAR GbR, Germany
- 11:30** **A Common Core Architecture as an Enabler for Cross-Platform Autonomous Driving**
Dr. Felix Lotz, Product Manager Driving Functions, Continental Teves AG & Co. oHG, Germany
- 12:00** **Developing a Platform-Agnostic Vehicle Sensor Framework for Continuous Sensor Integration**
Oleksandr Nazarov, Senior Delivery Manager, Intellias Ltd., Ukraine

12:30 Lunch in the exhibition area

The current congress program
and further information
can be found online:

www.atzlive.de/en/audri



11:00 – 12:30, Parallel Strand II – Room 2

INSURANCE TOPICS

Moderation: Meris Neininger, Managing Editor Versicherungsmagazin

- 11:00** **Automated Driving – a Gamechanger for the Vehicle Insurance Industry?**
Andreas Kelb, Freelance Consultant, rvgarage, Germany
- 11:30** **Telematics on the Way to Becoming a Commodity in Car Insurance**
Onnen Siems, Managing Director, Meyerthole Siems Kohlruß – Gesellschaft für aktuarielle Beratung mbH, Germany
- 12:00** **Autonomous Vehicles and the Integration of AI for Accident Avoidance**
Jörg Rohnke, Chief Sales Officer, kasko2go AG, Switzerland

14:00 – 16:00, Parallel Strand I – Room 1

MANEUVER PLANNING

Moderation: Steffen Schmidt, IPG Automotive GmbH

- 14:00

Toward a Robust Single-Shot Monocular SLAM
Gregory Schroeder, Development Engineer, IAV GmbH, Germany
- 14:30

Interpretable Approximation of Optimal Trajectories for Lateral Vehicle Guidance
Philip Dormmüller, Research Associate, Institute of Control Theory and Systems Engineering, TU Dortmund University [in cooperation with ZF Group], Germany
- 15:00

Automated Coupling of Semi-Trailers as a Building Block for Yard Automation
Dr. Oliver Wulf, Team Lead L4 Automation, ZF Group Commercial Vehicle Control Systems, Germany
- 15:30

Improved Ultrasonic Sensing Using Machine Learning
Dr. Heinrich Gotzig, Expertise Director, Valeo Schalter und Sensoren GmbH, Germany

16:00 Refreshment break with coffee and tea in the exhibition area

16:30 – 17:30, Plenum

POLITICAL FRAMEWORK

Moderation: Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group


- 16:30

CCAM Partnership – from Research Needs to Results and Impacts
Armin Gräter, Expert Digitalisation and Automated Driving, BMW Group, Germany
- 17:00

Politics and Automated Driving
Speaker inquired

17:30 End of the 1st day of the congress

- 19:00

Networking Dinner
 Enjoy a pleasant evening and interesting conversations over dinner with colleagues and speakers.

14:00 – 16:00, Parallel Strand II – Room 2

NEW VEHICLE AND INTERIOR CONCEPTS

Moderation: David Gagliardi, Pininfarina Deutschland GmbH

- 14:00

Ride Hailing – Insights for End Users
Beth McGough, Senior Manager Global User Experience Research, Yanfeng, USA
- 14:30

The Need for New Vehicle Concepts and Interiors for Shared Commercial Passenger Transport
Martin Dorynek, Research Associate, Chair of Ergonomics, Technical University of Munich, Germany
- 15:00

Orbiter Project – Realizing Future Mobility: Modular Compact Mover
Ronald Gerschewski, Managing Director, Welp Holding GmbH, Germany
- 15:30

Augmented Reality in Automated Vehicles
Speaker inquired

08:30 – 10:00, Parallel Strand I – Room 1

TEST METHODS & VALIDATION I

Moderation: Dr. Andree Hohm, Continental Teves AG & Co. oHG

- 08:30 AI-Based Perception Signal Patterns as an Input for Shadow Mode Testing of the ACC Function
Dr. Ralf Hofmann, Technical Officer, IAV GmbH, Germany
- 09:00 Digital Twins of Roads as a Basis for Virtual Driving Tests
Martin Herrmann, Business Development Manager ADAS and Automated Driving, IPG Automotive GmbH [in cooperation with 3D Mapping Solutions GmbH], Germany
- 09:30 Less is More – How Not to Test Everything
Janek Jochheim, Strategic Product Manager, dSPACE GmbH [in cooperation with BTC Embedded Systems], Germany

08:30 – 10:00, Parallel Strand II – Room 2

DATA GENERATION & DATA SECURITY

Moderation: Jörg Hölzig, EDAG Engineering GmbH

- 08:30 Real-World Traffic Scenarios for ADAS and AD Development
Dr. Holger Banzhaf, Managing Director, DeepScenario GmbH, Germany
- 09:00 Predicting Sensor Contamination Using Simulation
Oliver Pettke, Student Employee, IAV GmbH, Germany
- 09:30 New Legal Challenges for Cybersecurity and the Use of Data
Daniel Wuhrmann, Partner, Attorney-at-Law, reuschlaw Reusch Rechtsanwaltsgesellschaft mbH, Germany

10:00 Refreshment break with coffee and tea in the exhibition area

10:30 – 12:00, Parallel Strand I – Room 1

TEST METHODS & VALIDATION II

Moderation: Christoph Hartung, ETAS GmbH

- 10:30 More Efficient Validation and Verification of ADAS/AD Functions Using Real and Synthetic Radar Raw Data
Patrick Schnöll, BD Manager BC RADAR, Continental Engineering Services GmbH [in cooperation with IPG Automotive GmbH], Germany
- 11:00 Digital Homologation – a Digital Development Cycle for Software-Centric Vehicles
Jann-Eve Stavesand, Head of Consulting, dSPACE GmbH [in cooperation with TÜV Nord Mobilität and T-Systems], Germany
- 11:30 Test Strategies for the Efficient Validation of Automated Driving Functions
Martin Herrmann, Business Development Manager ADAS and Automated Driving, IPG Automotive GmbH, Germany

10:30 – 12:00, Parallel Strand II – Room 2

TRAFFIC PLANNING & BUSINESS MODELS

Moderation: Prof. Andre Seeck, Federal Highway Research Institute (BAST)

- 10:30 Modular Traffic Concept in the City of Hanau
Markus Henrich, Operations Manager, Hanau Infrastruktur Service, Germany
- 11:00 Technological and Infrastructure Prerequisites for the Deployment of the First Shared Autonomous Vehicle Pilot Test Project in Malta
Manuel Cassar, Research Support Officer, Spatial Planning and Infrastructure, University of Malta [in cooperation with Infrastructure Malta]
- 11:30 How Connectivity Makes New Experiences and New Business Models Possible
Gerhard Großberger, Director Product Management, Harman Becker Automotive Systems GmbH, Germany

12:00 Lunch in the exhibition area

13:00 – 14:30, Plenum

HMI & VEHICLE MONITORING

Moderation: Dr. Andreas Teuner, ZF Group

13:00 The Rules of Engagement – Exploiting Driver-Automation Interaction in ADAS Level 2 Functions

Dr. Robert Fuchs, General Manager, JTEKT Corporation, Japan

13:30 HMI Design in Highly Automated Vehicles – Does Everything Change?

Jan Bavendiek, HMI Expert, fka GmbH [in cooperation with Institute for Automotive Engineering (ika), RWTH Aachen University], Germany

14:00 Vehicle and Road Condition Monitoring as an Essential Foundation for Automated Driving

Dr. Daniel Fischer, Head of Business Center Software Products, Continental Engineering Services GmbH, Germany

14:30 Refreshment break with coffee and tea in the exhibition area

15:00 – 16:00, Plenum

KEYNOTE LECTURES II

Moderation: Georges Massing, Mercedes-Benz AG

KEYNOTE**15:00 The Autonomous Driving System – Key Products for Mass Market Functions and the Rise of Driverless Cars**

Frank Petznick, Head of Business Area Autonomous Mobility, Continental Teves AG & Co. oHG, Germany

KEYNOTE**15:30 What if Cars could be as Easy to Program as Smartphones are Today?**

Dr. Jan Becker, CEO and Founder, Apex.AI, Inc., USA

16:00 Closing remarks

Dr. Alexander Heintzel, Editor-in-Chief ATZ | MTZ Group, Springer Nature, Germany

Prof. Dr. Prof. h.c. Dr. h.c. Torsten Bertram, Head of the Institute of Control Theory and Systems Engineering (RST), TU Dortmund University, Germany

Eventual program changes reserved

**Continental**

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2020, Continental generated sales of €37.7 billion and currently employs more than 192,000 people in 58 countries and markets. On October 8, 2021, the company celebrated its 150th anniversary.

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Phone +49 611 7878-131
ATZlive@springernature.com

Media partners

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magazin

Registration fee

On site:
€ 1,395.– plus VAT

Virtually via live stream:
€ 995.– plus VAT

This includes the conference documentation, the catering during breaks and the evening event on 05-04-2022. Virtual participation does not include the catering during breaks and the evening event.

Date

5 – 6 April 2022

Venue

RheinMain CongressCenter (RMCC) or virtually via live stream
Friedrich-Ebert-Allee 1
65185 Wiesbaden, Germany

Languages used in the presentations

German and English with simultaneous interpreting
(German – English / English – German)

Hotels

Some hotels have room blocks at reduced prices for the participants. You can find more information on the events page of our website.

Further Information and Online Registration:

www.atzlive.de/en/audri



Participants

This congress is aimed at decision-makers and experts who shape and develop automated driving and who are involved in the multi-disciplinary topic of vehicle-to-X, as well as those dealing with the development of new vehicle and interior concepts. These include automotive engineers at car makers and commercial vehicle manufacturers, suppliers and engineering service providers, function developers, and software engineers from industry and universities, as well as analysts, consulting companies, insurance companies, and other experts specialized in the social, economic, and legal background.

Further Information and Online Registration:



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5 – 6 April 2022, Wiesbaden, Germany

or virtually via live stream

Hybrid event

Your choice:

Participate on site
or virtually via
live stream

Your contact partner

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Organizer

ATZlive // Spotlight on Powertrain and Vehicle Engineering

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Our close collaboration with the editorial teams of our specialist magazines ATZ and MTZ keeps us fully up-to-date on the latest topics and trends on the market.

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