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extended Deadline

CALL FOR SPEAKERS
Speakers should submit their applications by 02nd May 2017

ADFD

AUTOMATED DRIVING, FUTURE MOBILITY & DIGITALIZATION

TECHNICAL, LEGAL AND STRATEGIC ASPECTS

INTERNATIONAL SYMPOSIUM
06th – 08th September 2017, Expowal Hannover

HIGHLIGHTS

- INTERNATIONAL SPEAKERS
- PARALLEL TECHNICAL SESSIONS
- COMMERCIAL VEHICLE TOPICS INCLUDED
- EVENING EVENT FOR NETWORKING
- TEST DRIVES

++++++++++++++++++++ www.car-training-institute.com/ADFD ++++++++++++++++++++

DEAR LADIES AND GENTLEMEN ...

ADFD

AUTOMATED DRIVING, FUTURE MOBILITY & DIGITALIZATION

... these keywords summarise a megatrend of our century. Extensive R&D investigations and innovation processes towards future mobility are driven faster than ever before. In combination with the predicted changes in customer demands, there is uprising a crucial paradigm change. The primary business sector of the OEMs is expanded, turning from car manufacturers to providers of sustainable mobility services. In terms of strategic alignment, the leading manufacturers are keeping traditional values, but at the same time they establish their own brands or open to alliances with strong IT players, who benefit from their extensive know-how in artificial intelligence-based software, data processing and user-oriented services.

Advanced automotive technology presents itself largely as "ready to market": in terms of their functional range, the generations of latest and future vehicle models are going up to the limits of what is and what will be legally possible. At the same time, enormous investments have been pushed by political tailwind to enable highly automated driving in real road conditions – starting on highways and now focusing on the next level of connected autonomous vehicle applications in inner-city scenarios.

Regardless of the rapid technological progress, we are more and more facing the reality in practice and the challenges – especially homologation, legal and ethic questions – are core objectives of current expert working groups.

The ADFD symposium offers a high class forum to exchange experiences in the international community of automotive & information technologies, mobility & transportation research as well as social & legal sciences.

Take impressions from a review on our previous symposium, which successfully took place in November 2016 with delegates from 14 countries: The highlights include live test drives with autonomous vehicle demonstrations accompanying the entire conference, which attracted great public interest. Special attention was paid to the moderated plenary sessions on selected topics. Technical questions, opportunities, but also existing challenges were addressed openly in the panel keynotes and further discussed in the parallel sessions with 40 specialised presentations.

This year, we are looking forward to welcoming you in person from 06th to 08th September on our ADFD 2017 at the Expowal in Hanover.

Best regards

Dr.-Ing. Roman Henze
Chairman, Manager Vehicle Dynamics & Active Systems
Institute of Automotive Engineering, TU Braunschweig

Ass. jur. Leonie Harmal
Conference Director,
Car Training Institute

ADVISORY BOARD

Dr Roman Henze (Chairman)
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Tokyo University of Agriculture and Technology

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Robert Bosch GmbH

Tony Sandberg
Engineering Director, Research and Advanced Engineering, SCANIA CV AB

Thomas Wolf
Innovation Manager, Technological Innovation,
WABCO Vehicle Control Systems

PRESENTATION PROPOSAL

Why you should apply as a conference speaker

1 As a guest speaker at the international Symposium on Automated Driving you will become part of an expert network and will have an opportunity to present yourself and your company to a specialist audience and to put your own knowledge and expertise on show.

2 You will be entitled to attend the event entirely free of charge and will have opportunities to exchange views and ideas with likeminded professionals over a 2-day period.

3 This will allow you to expand your own network and maintain and deepen existing business contacts.

How to hand in your Presentation Proposal

Handing in via the call for papers form available at **www.euroforum.de/adfd** or directly to

Ass. jur. Leonie Harmal, Conference Director
Phone: +49 (0) 211 / 96 86 – 38 82 | email: leonie.harmal@euroforum.com

Speakers should submit their applications by 02nd May 2017

Selection process

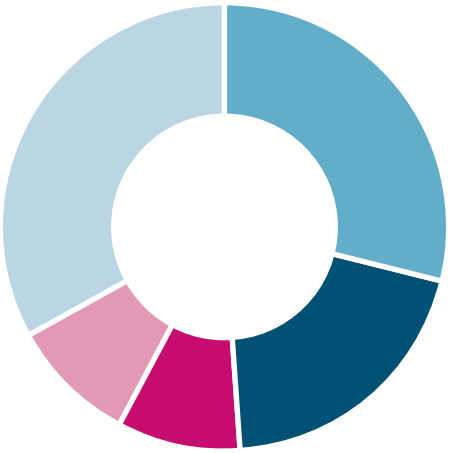
- The proposals will be examined and selected by a team of experts (mainly the advisory board) comprising the conference.
- The entries will be assessed on their practical and scientific relevance, topicality and comprehensibility.
- Papers that are obviously intended for publicity purposes will be rejected immediately.

Presentation and timeframe at a glance

- Each conference paper has been allocated a time-slot of about 30 minutes.
- The presentation proposal should take up at least one half (and at most one) A4 page.
- The proposal must have a title and four sub-points, along with a short explanation of the contents.
- A digital photo should be added.
- It should also include a few sentences outlining what expertise the speaker and his/her company have in automated driving topics.
- The proposal must be in English
- Presentation language is English
- Proposals may be submitted from any country.

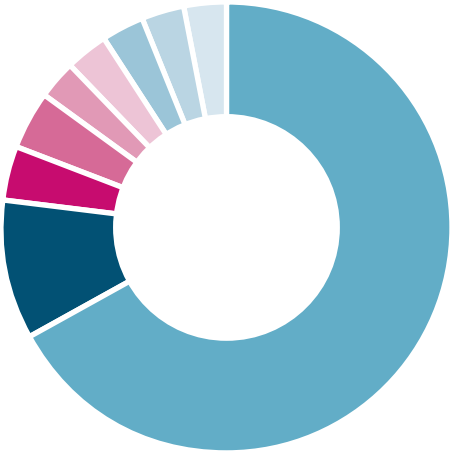
TARGET AUDIENCE

Delegate structure 2017 by FUNCTION



29 %	R&D
20 %	Management Board
9 %	Quality Management
9 %	Sales
33 %	Others

Delegate structure 2017 by COUNTRIES



67 %	Germany
10 %	South Korea
4 %	USA
4 %	Sweden
3 %	Italy
3 %	Great Britain
3 %	Spain
3 %	Egypt
3 %	Austria

TOPIC AREAS FOR YOUR PAPER PROPOSAL

KEY-NOTE TOPICS

- Political Framework, Digitalization
- Technical Key-Notes (OEM, suppliers, HCV)
- Customer Requirements
- Legal Framework, Homologization
- Functional Safety
- Insurance

VEHICLE LONGITUDINAL & LATERAL CONTROL

- **Innovative Steering and Brake Systems**
  - Steering Systems
  - Brake Concepts
  - By Wire Systems
- **Drivetrain Systems**
  - Torque Vectoring
  - Potentials & Requirements on EV
  - Energy Management, Storage & Power Supply
- **Vehicle Sensing & State Estimation**
  - Advanced Inertial Sensing
  - Road Condition & Tire Sensors
  - Vehicle Stability & Friction Estimation
  - Road Condition Estimation
- **Sensor- & System Architecture, Redundancy**

FUNCTIONAL SAFETY & OPERATING SAFETY

- **Functional Safety**
  - Safety Requirements, according to
  - Automation Levels and Use Cases
  - Impacts of ISO 26262
  - ASIL Risk classification
- **Safety of Use**
  - Customer Usage Behaviour
  - Misuse Prevention
- **Efficient Testing & Evaluation**

LEGAL FRAMEWORK

- **Global Harmonization & Homologation**
  - Levels of Automation & Impacts on Homologation
  - European Framework
  - Worldwide Harmonization
  - International Working Group Activities
- **Product Liability**

360° SENSOR TECHNOLOGIES, DATA FUSION, ARTIFICIAL INTELLIGENCE

- **Advanced Environment Sensing Technologies**
  - Ultrasonic, Radar, Lidar
  - 2D/3D-Camera
  - Laser-Scanning
  - "See-Through"-Concepts
- **Sensor & Data Fusion**
  - Advanced Object Detection & Classification
  - Scenario Interpretation & Object Tracking
- **3D-Referencing & Automated Scenario Generation**
  - Path Planning
  - Collision Risk Optimal Trajectory Planning
  - Decision Making
- **Machine Learning**

HAD-FUNCTIONS & COOPERATIVE TRAFFIC

- **Automated Parking, Valet Parking**
- **Automated Emergency Braking**
- **FCW and AEB Basic Functions**
  - Pedestrian/Bicyclist Detection and
  - Collision Mitigation Systems
  - Cooperative Forward Vehicle
  - Emergency Brake Warning
- **Automated Highway Driving**
  - Automated Highway/
  - Divided Highway Assist
  - Construction Zone Pass Through
  - Partly Automated Lane Change
  - Automatically Commanded
  - Steering Functions
- **Road Boundary Departure Prevention**
- **Inner Urban & Traffic Congestion Functions**
  - Vehicle – Vehicle Interaction
  - in Stop&Go and Crossing Sections
  - Vehicle – Partner Cooperation
  - Vehicle – Infrastructure & Traffic Flow Optimization

»Good chance to network with many experts!«
Min-Chul Kim, SangYong Motor Company

»Good opportunity to get to know people and overall good presentations on high level.«
Emanuel Willmann, Robert Bosch GmbH

CUSTOMER CONCERNS

- Customer Requirements and Expectations
- Market Penetration of Automated
- Driving Functions and Autonomous Cars
- Consumer Values vs. Customer Confidence
- Use Cases & Usage behaviour
- Insurance Models

DRIVER VEHICLE INTERACTION

- **Experimental Case Studies**
  - Adaptive Assistance/Partly Automation
  - HAD Studies
- **Objectification**
  - Subjective Evaluation of Driving
  - Comfort and Safety Perception
  - Objective System Evaluation
  - Objectification of Longitudinal and
  - Lateral Automated Driving Functions
- **Driver Monitoring**
  - Fatigue, Health Monitoring
  - Distraction
  - Driving Style & Driver's Control Abilities
- **HMI Concepts**
  - Alternative Driver Control Concepts
  - Information and Human-Machine
  - Interaction
- **HAD Take Over & Take Back-Strategies**
  - Driver in the Loop vs. Driver out
  - of the Loop
  - Activating, Warning,
  - Intervening Strategies
  - Risk Minimimal Fail Safe/
  - Safe Stop Functionality

TESTING & SIMULATION

- **Track & Field Testing**
  - Real Test Environs
  - Test Targets
  - Measurement & Test Automation
- **Simulator**
  - Vehicle In The Loop, Augmented Reality
  - Driving Simulator Tests
- **Simulation, Software in the Loop**
  - Virtual Test Tools
  - Sensor Modelling
  - Scenario Definition & Implementation

DIGITAL INFRASTRUCTURE & MAPS

- **Infrastructure Management,Services & Operation**
- **Advanced C2X-Communication**
  - Road Side Hardware & Communication Technologies
  - Telematics Services, Wireless and Communication Standards
- **Digital Maps**
  - Requirements on Digital Mapping
  - Highly accurate and Real Time
  - Dynamic Map Generation
  - Precise Localization & Vehicle Sensor
  - Data Synchronization
- **GPS-Technologies & Navigation**
- **Cloud Sourcing Potentials & Big Data**
  - Customer Comfort Applications
  - Traffic, Safety & Road Condition
  - Applications
  - Traffic Analysis
- **Data Security Aspects**

SPECIAL INTEREST SESSION "AUTOMATED COMMERCIAL VEHICLES" ON ROAD/OFF ROAD AND UAV

- **AEB System Requirements**
- **Steering System Applications**
- **Efficient Road Trains**
- **Logistic, Distributions**
- **Automated Trailer Drive**
- **Construction Site Applications**
- **Off Road, Mining, Agriculture**

TECHNICAL EXHIBITION

- **Demonstrators, Autonomous Test Cars**
- **Driving Simulation**
- **Targets**
- **Test and Measurement Equipment**
- **Virtual Testing**

GALLERY 2016

Playseat

SPONSORING AND EXHIBITIONS

CTI »Automated Driving, Future Mobility & Digitalization« defines the new era of mobility!

Be part of this event to explore how automation technology will change the world inside the vehicle.

With our test track on site and exhibition forum you have the opportunity to show your latest developments and engage with the right people in the perfect environment.

Join us as partner now!

For more information please contact:

Şenel Çelik, Senior Sales Manager
+49 (0) 211 / 96 86 – 37 28
senel.celik@car-training-institute.com

Anika Mieves, Sales Manager
+49 (0) 211 / 96 86 – 33 39
anika.mieves@car-training-institute.com

Your personal registration code

REGISTER ONLINE NOW!

www.car-training-institute.com/registration/p2300469
E-Mail: registration@car-training-institute.com
Phone: +49 (0) 211 / 96 86 – 38 47

	EARLY BIRD PRICE until 7th July 2017	REGULAR PRICE from 8th July 2017
INTERNATIONAL SYMPOSIUM 07th – 08th September 2017	**€ 2.100,–** excl. VAT per person	**€ 2.300,–** excl. VAT per person

[P2300469]

YOUR BENEFITS

- A substitute may attend in your place at no additional cost.
- The fee covers full conference documentation.

YOU CANNOT ATTEND?

The event documentation will be available for € 399,– plus VAT. You will receive your login details a few days after the event.

TERMS AND CONDITIONS

http://cti.euroforum.de/en/agb

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EUROFORUM Deutschland SE, Customer Service, Prinzenallee 3, DE-40549 Düsseldorf

www.car-training-institute.com/ADFD

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+49 (0) 211 / 96 86 – 38 47

CUSTOMER SERVICE & REGISTRATION
Steve Meyer
Phone: +49 (0) 211 / 96 86 – 38 47
registration@car-training-institute.com

CONCEPT & CONTENT
Leonie Harmal
Conference Director
leonie.harmal@car-training-institute.com

SPONSORING AND EXHIBITIONS

The international Symposium will give you an opportunity to present your company, and its products or services, to an exclusive gathering of potential clients. For further information on sponsoring and exhibition opportunities and target-group identification please contact:

Şenel Çelik
Senior Sales Manager
+49 (0) 211 / 96 86 – 37 28
senel.celik@car-training-institute.com

Anika Mieves
Sales Manager
+49 (0) 211 / 96 86 – 33 39
anika.mieves@car-training-institute.com