



# AUTOMOTIVE DIAGNOSTICS

15th International CTI Conference



No 1  
Event in  
Europe



2 INSPIRING DAYS



12+ COUNTRIES



20+ SPEAKERS



ROUND TABLE SESSIONS  
AND SOLUTION FORUMS



130+ DELEGATES



NETWORKING EVENING  
AT A BREWERY

**"Best conference in this field. Good opportunity  
for state of the art, overview and networking."**

R. Cunis, Servicexpert



The conference language and  
the presentations will be in English!

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D I T E S T

# Welcome to our 15th International CTI Conference

# **AUTOMOTIVE DIAGNOSTICS**

## in Munich, Germany!

**The actual trends in the automotive world raise a lot of questions for the diagnostic expert.**

**JUST TO STATE FIVE OF THEM:**

- How does connectivity impact diagnosis?
- Which approaches could be successful to analyze big data?
- Are there innovative shared business models?
- What are the impacts of automated driving?
- Which diagnostic methods are being used for the electric drivetrain and especially for the battery?

To enable and secure future mobility, there seem to be a lot of work laying before us. But you can see it this way: there are so many fascinating tasks for the automotive diagnostic community. There have never been better reasons to meet and discuss them at the Automotive Diagnostics Conference 2018.

From the engineering perspective to production and after sales service – the conference gives a broad view on diagnostic aspects. The experts talk about their current projects and share experience with participants from the whole diagnostic world.

*We are looking forward to see you in Munich!*

**Prof. Dr Norbert Schreier**  
Head of Automotive Engineering/Service,  
Esslingen University of Applied Sciences

**Andrea von Horn**  
Senior Conference Manager,  
Car Training Institute

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**Dr Johann Prenninger**  
Head of Field Data Analysis,  
BMW Group



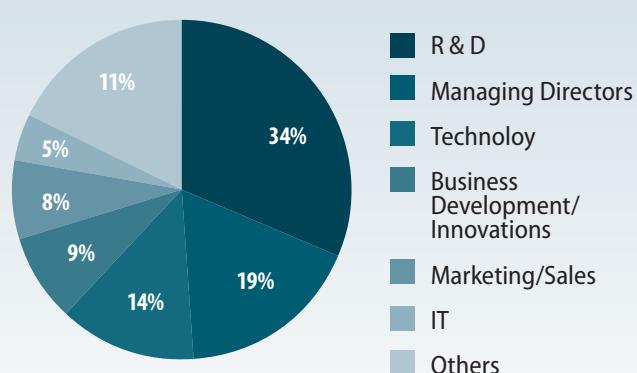
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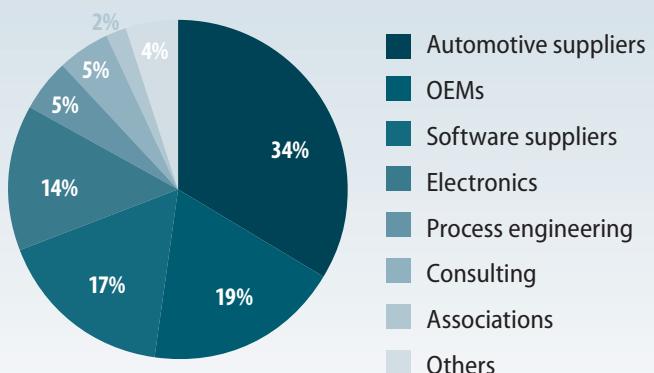
**Prof. Dr Norbert Schreier**  
Head of Automotive Engineering/  
Service, Esslingen University of  
Applied Sciences

## WHO WILL YOU MEET?

### BY JOB TITLE



### BY INDUSTRY



# FIRST CONFERENCE DAY

Thursday March 22, 2018

8.30 Registration

9.00

## Welcome address and introduction by CTI and the chairman



Prof. Dr Norbert Schreier, Head of Automotive Engineering/Service (FASE), Esslingen University of Applied Sciences and Coordinator Automotive Engineering/Service at CDHAW, Tongji University, Shanghai

## CONNECTED

9.15

### Connectivity as driver of changing aftersales processes

- Role of connected cars within future of automotive industry
- Diagnostics on the road to electrification and autonomous driving
- Digital applications to fulfill customer expectation
- Approaches for aftersales processes based on the connected car



Uwe Krüger,  
Manager Aftersales Strategy Connected Cars, BMW Group

9.45

### Challenges of automotive diagnostics on the point of service

- What are the current challenges on the point of service
- Ongoing change – how do we face it  
(Automated – Connected –Shared)
- The flow of customers – controlling and timing has to be possible and is our chance
- Orientation for the future



Admir Totic,  
Service Manager, Daimler AG

10.15

### Beyond predictive maintenance: rethinking connectivity and automation

- Avoid data hoarding as a solution with what you already know
- Rethink connectivity and automation with technicians that never sleep
- Offer your knowledge to anyone with secure services that improve control
- Protect your intellectual property to the fullest with a practical and profitable approach



Dr Paolo Pilozzi,  
Managing Director, MASS

10.45

Questions and discussions with the speakers

11.00

Networking break in the exhibition area

## OTA

11.30

### Updates over the air and diagnostics - key technologies for managing connected cars

- Trends for updates over the air in automotive
- Challenges to provide updates over the air for all ECU's inside a managed vehicle
- Diagnostics as part of an end-to-end update over the air solution
- A view in the future



Frank Oswald,  
Senior Manager Business Development,  
Elektrobit Automotive GmbH

12.00

### Safe, Secure over-the-air firmware updates utilizing Uptane

- Uptane: new open standard addressing comprehensive threat model for Automotive OTA updates
- Digitalization and the growing need for remote software/firmware management
- Introducing secure OTA updates for new on-board architectures with application server and secondary ECUs
- Transparent and holistic cybersecurity approach needed



Timo Littke,  
Business Development Manager, HERE Technologies

12.30

### ICONIQ Motors – truly unique future mobility

- Focus on the passenger: productivity and digital world
- Diagnostics and telemetry: taking advantage of new technology
- Security, reliability and FOTA – challenges
- Market-specific challenges



Steve Nikulin,  
Executive Director of R&D, EE and E-Drive, ICONIQ Motors



Mario Ortegón,  
Product Portfolio Manager, DSA GmbH

13.00

Questions and discussions with the speakers

13.15 Networking lunch in the exhibition area



## VEHICLE DATA

14.15

### Domain competence based connectivity solutions beyond big data

- An increasing number of connected things and new service models in automotive industry boost the need for smart data instead of big data
- Smart data includes smart data definition, acquisition, transmission and storage to be delivered by modular IoT platforms which have to be designed from a user and use-case centric perspective
- New diagnostic connectivity solutions and service models cover the whole vehicle life cycle set IoT platform requirements and are based on domain competence



Dr Michael Hackner,

Head of Web Based Diagnosis, Robert Bosch GmbH

14.45

### Systematical management of load collectives as success criteria

- Data instead of assumptions:  
how do our customers use the vehicles?
- Usecases along the automotive value chain
- Key factor: how to ensure data quality



Timo Dolde,

Senior Project Manager Data Analytics, P3 automotive GmbH

15.15

### “Mobility as a Service” program derived from vehicle generated data

- Geotab and Moove Connected Mobility have implemented a „Mobility as a Service“ program on 10,000 of Business Lease vehicles
- Customers receive the benefit of a fully automated, yet „white glove“ vehicle experience
- The insights from this data enables business lease's corporate clients to achieve net savings up to 15 % of MRT costs
- The combination of not using sensitive personal data and a net positive result is unique in the fleet management industry



Stefano Peduzzi,

Director Europe for Geotab



Henk Kooijman,

Managing Director for Moove Connected Mobility

15.45

Questions and discussions with the speakers

16.00

Networking break in the exhibition area

16.30

### Round Table Session

#### Usage, application and sensitivity of vehicle data with the connected car



Dr Johann Prenninger,

Head of Field Data Analysis, BMW Group



#### Remote diagnostics, why we need workshop diagnostics in future



Dr Walter Lehle,

Development Powertrain Diagnosis, Robert Bosch GmbH

#### Electronic Periodical Technical Inspection (ePTI) of safety Relevant Systems



Dr Thomas Raith,

Managing Director, Dr. Thomas Raith Consulting (Former Daimler AG)

#### Presenting the results of the table discussions in front of the plenary

## OUT OF THE BOX

17.30

### The importance of corporate culture in the age of digital transformation – why our mindset needs a new OS update!

Digital transformation is transforming society and the economy at unprecedented speeds. This transformation is risk and opportunity at the same time. In order to seize the opportunities and minimize the risks, one should deal with the topics mindset, culture and attitude. The corporate culture will decide on success or failure when dealing with market dynamics. Culture is responsible for how people perceive, think, feel and subsequently act in an organization. Without culture development, there is no further development of business models, products, services and brands in the period of transformation, and as a result, important innovations are not forthcoming. This endangers the ability to survive and succeed in the future.



Reza Razavi,

BMW Group

18.00

Questions and discussions

18.15

End of the first conference day

## EVENING EVENT IN A TRADITIONAL BAVARIAN BREWERY

At the end of the first conference day CTI invites you to take the opportunity to expand and strengthen your network in an informal and relaxed atmosphere with foods and drinks in the brewery „Wirtshaus in der Au“.



# SECOND CONFERENCE DAY

Friday March 23, 2018

9.00  
Solution Forums

## P R E S E N T A T I O N S W O R K S H O P S I N T E R A C T I V E D I S C U S S I O N S

The best requirement to consider current problems, solutions or approaches and to discuss them in an exclusive round.

**Choose between the sessions and take the opportunity to visit two different topics.**



**WORKSHOP I**  
**Why virtual reality is the second best option for car workshops?**  
hosted by AVL DiTEST GmbH



**WORKSHOP II**  
**Aftersales 4.0 – Vision of the near future**  
hosted by Robert Bosch GmbH



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**WORKSHOP III**  
**Monetization of Diagnostic & After Sales Data – is Data really the new Oil or just another Hype?**  
hosted by P3 Group



10.30 Networking break in the exhibition area

## ■ VEHICLE DIAGNOSTICS

11.00  
**Analytics of diagnostic data within the automotive supply chain**

- Root Cause Analysis along the supply chain
- The PRO-OPT Platform for cooperative analytics in smart ecosystems
- Smart analytics of diagnostic data in automotive production

 Dr Simon Becker, Product Portfolio Manager,  
DSA Daten- und Systemtechnik GmbH;  
Consortial Lead of PRO-OPT research project

 Dr Roland Stoffel,  
Data Scientist, DSA Daten- und Systemtechnik GmbH

11.30

**Connected – what does connected mean and the impact on diagnostics?**

- Standards-based Interoperability
- Platform-based Interoperability
- Impact on Diagnostics



Gangolf Feiter,  
Head of Business Development,  
Concepts & Services Consulting

12.00

**Next generation vehicle diagnostics – strictly based on standards**

- End-to-end vehicle diagnostics - the key to operative excellence
- Today's challenge: mastering increasing complexity
- Generic standardized vehicle diagnostic tester
- Platform-independent exchange of tests between development, production, service and within the vehicle



Dr Jörg Supke,  
CEO, emotive GmbH & Co. KG

12.30

Questions and discussions with the speakers

12.45

Networking break in the exhibition area

13.15

**The influence of selfdriving vehicles on automotive diagnostics**

- Perception of faults, the difference between human and artificial drivers
- Impact on diagnostic system and strategies – OBD meets FSM
- New safety critical diagnostic task: calculate the state of health of a vehicle
- Will we need a new standard?



Matthias Weber,  
Managing Director, Roben Automotive

13.45

**Comprehensive HV-powertrain diagnosis in the after sales (garage) – trends, necessity and best practice to successfully diagnose and repair the most valuable components of the vehicle in the garage**

- Trend of battery repair – e.g. analysis and balancing of exchange modules
- Safety aspects (insulation, leakage etc.) and how to test them
- Handshake of electronic diagnostics and measurement technology



Peter Gollob,  
Product Manager, AVL DiTEST GmbH

14.15

Questions and discussions

14.30

End of the conference

## PARTNER & EXHIBITOR OF THE CONFERENCE



### AVL DiTEST – your partner for workshop diagnostics

**AVL DiTEST** has established itself as one of the globally leading providers for automotive testing technology. The developments of the company are valued as technological benchmarks worldwide. AVL DiTEST offers products and services in the field of ECU diagnostics, automotive measurement inclusive high voltage measurement, emission testing and air conditioning service and supplies these products to vehicle manufacturers, workshops and inspection centers.

#### AVL DiTEST GmbH

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**Bosch Automotive Service Solutions** delivers proven enterprise software to create diagnostic and technical information solutions combined with engineering services that are used throughout the vehicle lifecycle from design, manufacture and aftersales service. Since pioneering vehicle diagnostics 30 years ago Bosch Automotive Service Solutions is now the global leader in vehicle diagnostic and technical information solutions with more than 29 of the world's leading OEMs as customers.

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We are an international team of more than 500 employees with subsidiaries in 8 countries. For more than 35 years DSA has been the leading expert for developing customer-specific communication solutions for vehicle electronics. Whether in development, production, aftersales or vehicle connectivity – our solutions cover the entire vehicle life cycle.

#### DSA Daten- und Systemtechnik GmbH

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**EMOTIVE** is an independent, German based software tool supplier and expert for automotive diagnostic systems offering software at the highest level of quality, innovation and applicability as a technical leader in OTX according to ISO 13209. EMOTIVE has contributed and is actively engaged in the further standardization of OTX within ISO, VDA and ASAM. Emotive is a founding member of the Automotive Engineering Tool Alliance: AETA-RICE. Four companies: RA Consulting, Intrepid, CarMediaLab and EMOTIVE are intend to operate globally in an alliance of vendors of state-of-the-art tools for Automotive Electronics, which are based strictly on standards. AETA RICE employs over 130 automotive electronics engineers serving more than 250 regular customers worldwide.

#### emotive GmbH & Co. KG

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**Geotab** securely connects commercial vehicles to the internet, leveraging machine learning and big data to provide advanced analytics that empower business decisions.

#### Geotab

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**Moove Connected Mobility** is an expert in the field of automotive telematics. In cooperation with our partner Geotab, we connect vehicles with the internet and unlock a broad spectrum of relevant data. We provide insight via custom interfaces and dashboards. Thanks to innovative models, analyses and benchmark testing, we give specific advice on how to optimise operations whether the goal is increased security, more efficient maintenance or reduced environmental impact.

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**P3** is a leading international consulting, engineering and testing services company with a rapidly growing team of more than 3,000 consultants and engineers working for innovative solutions to today's complex technology challenges. P3 adds tangible value that helps clients succeed at every stage, from innovation to implementation.

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**Panasonic** is committed to the constant refinement and improvement of in-garage diagnostics, for production vehicles testing and to optimise the mobility in the workshop receptions. Toughbook and Toughpad solutions are the best and recognized platforms for diagnostic, testing operations and reception activities, because our solutions increase garage revenue, reduce operating costs and strongly enhance customer satisfaction.

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**The Softing Group**, based in Haar near Munich, Germany, is a reliable system partner to vehicle manufacturers, system as well as ECU suppliers and provides powerful tools and solutions for more than 30 years. Softing is the specialist for ECU diagnostics and measurement and test in the vehicle. Long-term customers of Softing include all leading automobile manufacturers. Softing is one of the top suppliers with around 90,000 installations in the growth market for test and diagnostic systems in vehicle electronics.

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**Vector Informatik** is your partner for the development of embedded electronics and supports manufacturers and suppliers in the automotive industry with a professional platform of tools, software components and services. Especially in the area of diagnostics Vector offers concerted tools that increase efficiency and improve the quality in the diagnostic development process. Open interfaces and standards such as AUTOSAR, DoIP, WWH-OBD, ODX and UDS are supported perfectly.

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# AUTOMOTIVE DIAGNOSTICS

15th International CTI Conference

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CONCEPT AND CONTENT



Andrea von Horn  
Senior Conference Manager  
[andrea.vonhorn@car-training-institute.com](mailto:andrea.vonhorn@car-training-institute.com)

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Dominik Sprenkleider  
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YOUR VENUE

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At the first evening of the conference, the Holiday Inn Munich City Centre invites you to a welcome drink.

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