

# AUTOMOTIVE ETHERNET CONGRESS

February 12-13, 2020



Powered by

Elektronik  
automotive



## Wednesday, February 12, 2020

08:55-09:00	Welcome		Elektronik automotive
09:00-09:30	Keynote: IVN Design Options for Tomorrows Architectures		Dieter Roedder, Robert Bosch
SESSION 1 / NETWORK & ARCHITECTURE			
09:30-10:00	Do we Really Need an All-IP Car?		Thomas Liebetrau, Tobias Islinger; Infineon
10:00-10:30	Meshing of the Networks: The Impact of Merging In-Vehicle Communications Networks to Support the Future Need for Adaptive Applications		Mike Potts, Molex
10:30-11:00	COFFEE BREAK AND NETWORKING IN THE EXHIBITION		
11:00-11:30	Early-stage Bottleneck Identification and Removal in TSN Networks	Dr. Hoai Hoang Bengtsson, VOLVO; Dr. Jörn Migge, RealTime-at-Work; Prof. Nicolas Navet, University of Luxembourg	
11:30-12:00	Virtualizing Network Functions of the In-Vehicle Network		Dr. Christian Herber, Manfred Kunz; NXP
SESSION 2 / LAYERS 3, 4			
12:00-12:30	TCP/IP and Other Higher-Layer Protocols via CAN		Holger Zeltwanger, CAN in Automation
12:30-14:00	LUNCH BREAK AND NETWORKING IN THE EXHIBITION		
SESSION 3 / SECURITY & SAFETY			
14:00-14:30	Automotive Ethernet Fuzzing – Challenges and Best Practices		Ibrahim Memis, Robert Bosch
14:30-15:00	Ethernet Security, the Protocols and its Challenges		Dr. Karsten Schmidt, AUDI; Harald Zweck, Infineon
15:00-15:30	Experience and Lessons Learned from Firewall and Intrusion Detection System Development for Automotive Ethernet		Ramona Jung, Siddharth Shukla; ESCRYPT
15:30-16:00	COFFEE BREAK AND NETWORKING IN THE EXHIBITION		
PARALLEL WORKSHOPS			
16:00-18:00	Workshop 1: Automotive Ethernet and Service-Oriented E/E Architectures		Daniel Gebauer, Varas Marcelino; Vector Informatik
16:00-18:00	Workshop 2: From the Cloud to the Car – Use Cases		Michael Johnston, Dr. Rajeev Roy; NXP
16:00-18:00	Workshop 3: Automotive Ethernet Debugging, Compliance Testing and Switch Latency Measurements		Dr. Ernst Flemming, Rohde&Schwarz
16:00-18:00	Workshop 4: Automotive Ethernet Layer 1 to Layer 7 Test Automation		Darshan Mehta, Tektronix
16:00-18:00	Workshop 5: Security for Ethernet EE-Architecture		Siddharth Shukla; ESCRYPT
16:00-18:00	Workshop 6: Automotive Ethernet Switch Training		John Simon, Intrepid
18:00-20:00	GET-TOGETHER AND NETWORKING IN THE EXHIBITION		

## Thursday, February 13, 2020

09:00-09:30	Keynote	
SESSION 4 / VALIDATION & TEST		
09:30-10:00	Ensuring Security of Data Communication in an IVN and Comparing the Choice of Encryption Techniques	Avik Bhattacharya, Keysight
10:00-10:30	AVB/TSN Testing Strategy from Semiconductor up to ECU and System Level	Martin Heinzinger, Ruetz System Solutions
10:30-11:00	COFFEE BREAK AND NETWORKING IN THE EXHIBITION	
SESSION 5 / LAYER 2		
11:00-11:30	When GATE’s Misbehave for IEEE 802.1Qbv Implementation	Tanuman Bhaduri, Keysight
11:30-12:00	Achievable Accuracy of gPTP Synchronization over PCIe	Thorsten Hoffleit, Renesas
12:00-12:30	Choosing the Right TSN Tool(s) to Meet a Network’s Bounded Latency Requirement	Don Pannell, NXP
12:30-14:00	LUNCH BREAK AND NETWORKING IN THE EXHIBITION	
SESSION 6 / PHY		
14:00-14:30	Automotive Ethernet and SerDes Technologies – Friends or Foes?	Stefan Brunner, Claude Gauthier; Automotive SerDes Alliance (ASA)
14:30-15:00	Optical Multi-Gigabit Ethernet – on the Verge of Standardization and Implementation	Carlos Pardo, KDPOF
15:00-15:30	COFFEE BREAK AND NETWORKING IN THE EXHIBITION	
15:30-16:00	The Need for Asymmetrical Data Transmission – An Evolutionary Step for Automotive Ethernet?	Jürgen Röder, Continental Automotive
16:00-16:30	10BASE-T1S: The Solution for Introducing Ethernet to Low-Speed Network	Takashi Yasuda, JASPAR (Toyota, Nissan, Honda and Mazda)
16:30-16:45	CLOSING	

### Gold Sponsors



### Silver Sponsors



### Bronze Sponsors



[www.automotive-ethernet-congress.de](http://www.automotive-ethernet-congress.de)

## Registration | Fill in, send, take part.

Please note: In order to be registered you have to fill in all required fields marked with an asterisk \*.

(A confirmation email will be sent to you)

### I want to register for:

☐ Sessions | **February 12, 2020**

#### Parallel Workshops: **Please choose only one**

- ☐ **Workshop 1:** Automotive Ethernet and Service-Oriented E/E Architectures
- ☐ **Workshop 2:** From the Cloud to the Car - Use Cases
- ☐ **Workshop 3:** Automotive Ethernet Debugging, Compliance Testing and Switch Latency Measurements
- ☐ **Workshop 4:** Automotive Ethernet Layer 1 to Layer 7 Test Automation
- ☐ **Workshop 5:** Security for Ethernet EE-Architecture
- ☐ **Workshop 6:** Automotive Ethernet Switch Training

☐ Sessions | **February 13, 2020**

### Contact:

Juliane Heger

Tel.: +49 (0) 89 / 255 56-1155

Fax: +49 (0) 89 / 255 56-0155

Email: JHeger@weka-fachmedien.de

[www.automotive-ethernet-congress.de](http://www.automotive-ethernet-congress.de)

### Automotive Ethernet Congress 2020

Conference fees	by Nov 28, 2019	after Nov 28, 2019
<b>Day 1</b> (Feb 12) incl. 1 Workshop	740,- EUR	790,- EUR
<b>Day 2</b> (Feb 13)	740,- EUR	790,- EUR
<b>Full Conference</b>	1.090,- EUR	1.190,- EUR

Plus 19% VAT

Please send Fax-Registration to + 49 (0) 89 255 56 – 0155  
or register online at [www.automotive-ethernet-congress.de](http://www.automotive-ethernet-congress.de)

### Venue

#### THE WESTIN GRAND Munich

Arabellastrasse 6  
81925 Munich  
Germany

### Terms and Conditions:

For further details please find the terms and conditions at [www.automotive-ethernet-congress.com](http://www.automotive-ethernet-congress.com).

- The attendance fee includes participation on the booked conference days, proceedings, lunch and refreshments.
- You will receive a confirmation of your conference registration along with your invoice.
- Cancellations received in writing before or on January 22, 2020 will be subject to a service charge of EUR 50 for one-day registrations and EUR 100 for two-day registrations. For all cancellations received after January 22, 2020 the full conference fee remains payable. Substitutions within the same company are welcome at any time.
- The organizers reserve the right to make changes in the program and/or speakers or to cancel sessions if conditions beyond its control prevail. Please check [www.automotive-ethernet-congress.de](http://www.automotive-ethernet-congress.de) for the latest conference information.
- Students: Students are granted a 50 % reduction, student ID required. Please submit by fax to + 49 (0) 89 255 56 0155 or by email to JHeger(at)weka-fachmedien.de.
- For registrations of five persons and more from one company, please contact our conference department for special rates.
- For further details please find the detailed terms and conditions at [www.automotive-ethernet-congress.de](http://www.automotive-ethernet-congress.de).
- All fees excluded VAT.

Last Name *	First Name *
Mr./Ms./Title *	Student: <input type="checkbox"/>
Company *	Job title
Street *	Department
Zip code *	City *
Country*	
Phone *	Email *
Purchase order number / TAX ID number etc.	
Date / Signature *	

Want to state a different billing-address? Type it easily by registering online  
[www.automotive-ethernet-congress.com/registration](http://www.automotive-ethernet-congress.com/registration)