

# AUTOMOTIVE ETHERNET CONGRESS

## Automotive Ethernet Congress 2018 January 30-31, 2018 | Munich

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### Tuesday, January 30, 2018

08:55-09:00	<b>Welcome</b>	Stefanie Eckardt, Elektronik automotive
09:00-09:30	<b>Keynote</b>	Ged Lancaster, Jaguar Land Rover
<b>Session 1: Automotive Ethernet Applications</b>		
09:30-10:00	<b>Step-by-step Introduction of Automotive Ethernet for Automomous Driving</b>	Josetxo Villanueva, Renault; Jaume Tamargo, Technica Engineering
10:00-10:30	<b>A view on next Steps of Automotive Ethernet</b>	Dr. Karsten Schmidt, AUDI; Harald Zweck, Infineon Technologies
10:30-11:00	<b>Coffee Break and Networking in the Exhibition</b>	
<b>Session 2: Physical Layer</b>		
11:00-11:30	<b>Automotive Gigabit Ethernet: Physical-Layer Challenges and Further Functional Requirements</b>	Dr. Stefan Buntz, Dr. Matthias Spägele; Daimler
11:30-12:00	<b>Connectivity Solutions for Automotive Multi-Gigabit Ethernet and Beyond</b>	Thomas Müller, Anton Peter; Rosenberger Hochfrequenztechnik
12:00-12:30	<b>Signal Quality and Cable Diagnostics; A Major Topic for Reliable Ethernet Systems in Automotive</b>	Ralf Eckhardt, Robert Rodrigues; Texas Instruments
12:30-14:00	<b>Lunch Break and Networking in the Exhibition</b>	
<b>Session 3: Networks &amp; Architecture</b>		
14:00-14:30	<b>10Gb Ethernet for Automotive. What is Needed to Make it Work in Software?</b>	Heinz Wrobel, NXP
14:30-15:00	<b>Automotive Plug &amp; Play from Theory to Implementation</b>	George Pappas, Jaguar Land Rover; Dr. Michael Ziehensack, Elektrobit
15:00-15:30	<b>FPGA-Based Central Gateway with High Scalability of CAN and Ethernet Interfaces</b>	Jun Sugawa, Hitachi
15:30-16:00	<b>Coffee Break and Networking in the Exhibition</b>	
<b>Parallel Workshops</b>		
16:00-18:00	<b>Workshop 1: How to Validate AVB/TSN Endpoint &amp; Switch Implementations</b>	Alon Regev, Ixia
16:00-18:00	<b>Workshop 2: OPEN TC8 v2 – How can OEM's &amp; Tier 1's Ensure Easy In-house Validation</b>	Thomas Schulze, Mike Schnabel; Spirent Communications
16:00-18:00	<b>Workshop 3: Introduction to AVB/TSN</b>	Colt Correa, Intrepid
16:00-18:00	<b>Workshop 4: Static vs Dynamic Configuration of Networks</b>	Hari Parmar, Jaguar Land Rover; Dr. Michael Ziehensack, Elektrobit Austria
16:00-18:00	<b>Workshop 5: Automotive Ethernet Traffic Engineering – Dimensioning the Roles of the Switch and the Processor</b>	Dr. Rajeev Roy, Michael Johnston; NXP
16:00-18:00	<b>Workshop 6: 10Mb Single-Pair Ethernet Multidrop Networks with Deterministic Performance for Automotive Applications</b>	Piergiorgio Beruto, Antonio Orzelli; CanovaTech
18:00-20:00	<b>Get-together and Networking in the Exhibition</b>	

### Wednesday, January 31, 2018

09:00-09:30	<b>Keynote</b>	Tadashi Nezu, Nikkei
<b>Session 4: AVB/ TSN &amp; Higher Layer Protocols</b>		
09:30-10:00	<b>Ethernet for Future Vehicle Architectures</b>	Mike Potts, Natalie Wienckowski; GM
10:00-10:30	<b>Some of the Challenges we face Implementing TSN Within the Automotive E/E</b>	Alex Jupp, Jaguar Land Rover; Bernhard Stangl, TTTech Automotive
10:30-11:00	<b>Coffee Break and Networking in the Exhibition</b>	
11:00-11:30	<b>TSN Traffic Shaping for Deterministic Automotive Networks</b>	Soheil Samii, GM; Dr. Helge Zinner, Continental Automotive
11:30-12:00	<b>Performance Assessment of Configuration Strategies for Automotive Ethernet Quality-of-service Protocols</b>	Jörn Migge, RealTime-at-Work
<b>Session 5: Safety &amp; Security</b>		
12:00-12:30	<b>Comparing Automotive Network Security for Different Communication Technologies</b>	Dr. Lars Voelker, BMW
12:30-14:00	<b>Lunch Break and Networking in the Exhibition</b>	
14:00-14:30	<b>Flexible, Scalable and Secure: Cost-effective In-Vehicle Networking</b>	Mike Jones, Todd Slack; Microchip Technology
14:30-15:00	<b>Firewall and IDS Requirements for Automotive Ethernet Based EE-Architectures</b>	Jan Holle, Ramona Jung; ECRYPT
15:00-15:30	<b>Functional Safety for Automotive Ethernet Networks – Isn't FCS Enough?</b>	Guenter Sporer, Luc van Dijk; NXP
15:30-16:00	<b>Coffee Break and Networking in the Exhibition</b>	
16:00-17:00	<b>Workshop Feedback: Summary of Workshops on Day 1</b>	

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