



electronica Automotive Conference

November 14, 2022, ICM - International Congress Center Messe München

Time	Opening and Keynote session, Room 14b							
09:00	Conference Opening by Dr. Reinhard Pfeiffer, Messe München and Peter Gresch, OptE GP Consulting							
09:15	Keynote 1: Karsten Michels, Continental: Software-defined Vehicle creates new Hardware Challenges							
09:40	Keynote 2: Dhruv Jain, Varroc Group: India – the next China?							
10:05	Keynote 3: Wolfram Harnack, ROHM Semiconductor: Silicon Carbide Global Supply Chain and the Impact on E-mobility Development							
10:30	Keynote 4: Stephan Berlitz, AUDI: Digital light for digital life							
10:55	Coffee break							
	Room 2		Room 5		Room 4			
Chair	Supply Chain/Sustainability Dr. Wolfgang Bochtler, Member of Advisory Board		New EE Architectures 1 Hans Adlkofer, Infineon Technologies		E-Mobility 1 Josef Schriek, PGUB Management Consultants			
11:30	Turning a crisis into an opportunity – how ZF Group applied lessons learned from the Semiconductor shortages	Fabian Schlegel, ZF Group	New E/E architecture enabled by semiconductors	Peter Schäfer, Infineon Technologies	CCS based bidirectional charging Insights into the energy – e-mobility connection	Dr. Stephan Hell, Kostal		
12:00	Challenges of supply chain	Hans Ehm, Infineon Technologies	Improved ADAS Safety by Digital Code Modulation Radar	Ralf Reuter, Uhnder	MCS, the Megawatt Charging System – The CharlN perspective on fields of E-Mobility applications	Claas Bracklo, Char-IN		
12:30	Sustainability meets wiring systems components	Nils Braun, Martin Bleicher, TE Connectivity	Enabling a Software-defined Supercomputer on Wheels	Felix Friedmann, Nvidia	E-Mobility Upscaling – Challenges for Switch and Protect in HV Battery Systems	Ralf Schmidt, DRÄXLMAIER Group		
13:00	Lunch break							
14:00	Impulse Speeches: ASEAN – The Next Big Thing, Jochen Siebert, JSC Automotive Aviation on the way towards more electric and autonomous, current status and outlook, Dr. Grzegorz Ombach, Airbus Electrification							
14:45	Coffee break							
Chair	New EE Architectures 2 Martin Schleicher, Continental		Smart Interior Robert Kraus, INOVA Semiconductors		E-Mobility 2 Jürgen Weyer, Ideas&Motion			
15:00	Zonal Modules in the Service- Oriented E/E Architecture – Opportunities and Challenges	Dr. Olaf Lüdtke, FORVIA	Next level of smart car access and interior experience	Jürgen Keller, Marquardt	NXP and Fraunhofer IISB collaborate on innovation of Advanced BMS Solutions	Antonio Leone, NXP Semiconductors Martin Wenger, Fraunhofer IISB		
15:30	How the Automotive OS disrupts the way we develop software	Moritz Neukirchner, Elektrobit	Elmos – Smart Lidar components for sub € 50 short range Lidar systems	Fabian Finkeldey, Mechaless Systems Member of the Elmos Group	Inverter operation at the thermal limit	Dr. Alexander Rambetius, Valeo		
16:00	Hardware parity between vehicle and cloud – next generation work benches for software defined vehicles	Patrick Bartsch, Amazon Web Services (AWS)	The optical revolution: How light and sensors are redefining the concept of driving	Pierre Laboisse, ams OSRAM Group	Realizing an Immersive Cabin Experience	Andy McLean, Analog Devices		
16:30	Final break							
17:00	CEO – Roundtable							









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Track 1, Room 11a

Moderator: Frédéric Plasson

Time	Track No.	Power Electronics			
09:50		Conference Opening Track 1			
10:00	1.1	New GaN solutions with EcoGaN	Kenichi Yoshimochi, Rohm Semiconductor		
10:30	1.3	The challenges & possibilities of GaN devices in Parallel	Dr. Nirmana Perera, Cambridge GaN Devices		
11:00		Coffee E	Break		
		Power Supply			
11:30	1.4	A high-speed and high-accuracy power device waveform simulation method	Makoto Murata, Rohm Semiconductor		
12:00	1.5	Peak load power management by DC-DC converters	Mr. Mikael Appelberg, Flex Power Modules		
12:30	1.6	Predictable transient analysis using SIMPLIS for next generation of embedded processors	Marisol Cabrera, Monolithic Power Systems		
13:00		Lunch break			
		Battery			
14:00	1.7	Long-Term Polygraphic Monitoring through MEMS and Charge Transfer for Low-Power Wearable Applications	Dr. Alessandro Gumiero, STMicroelectronics		
14:30	1.8	ROHM sustainable IoT device solution; Ultra-low power consumption power supply IC and battery charging IC for the ultra-thin rechargeable battery	Kazuhiro Murakami, Rohm Semiconductor		
15:00	1.9	Ensuring functionality and power supply of future developments	David Richardson & Leon Wanless, VARTA Microbattery		
15:30		Coffee Break			
		FPGA			
16:00	1.10	Open source toolchain for the development of FPGAs of multiple vendors	Dr. Thomas Kuhn, HTV		
16:30	1.11	Total Cost of Ownership for GateMate FPGA	Dr. Michael Gude, Cologne Chip		
17:00	1.12	High-Performance FPGA Power Supply Solutions	Thomas Fenn & Jens Hedrich, Monolithic Power Systems		

End of Conference

Track 2, Room 11b

Moderator: Siegfried Weigert, ibw industrieberatung weigert						
Track No.	Artificial Intelligence					
	Conference Opening Track 2					
2.1	Megatrend artificial intelligence – challenges and case studies	Holger Heidenblut , Elma Electronic				
2.2	Advancing Endpoint Intelligence	Suad Jusuf, Renesas Electronics				
2.3	Embedded Machine Learning with TinyML	Klaus-Dieter Walter, SSV Software Systems				
	Coffee Break					
	Artificial Intelligence					
2.4	Open Source drivers for Machine Learning accelerators	Dr. Markus Edel, Collabora				
2.5	Machine Learning for Industrial Vision Systems	Ian Ferguson, Lynx Software Technologies				
2.6	Neuromorphic Chips – The Revolution for Embedded Systems?	Dr. Gunter Spanner, VHS Electronics				
	Lunch break					
	Sensors					
2.7	Machine Learning On-Sensors: Next Generation of Low Power Smart Sensors for energy-efficient and intelligent IoT devices	Andrea Ronco , ETH Zurich				
2.8	Multiconnectivity asset tracking for indoor and outdoor applications	Dr. Carmen Brigante, STMicroelectronics				
2.0	Simplify Remote Nodes by Robustly					
2.9	Extending I2C and SPI Serial Buses Over Long Distances	Dr. Eric Benedict, Analog Devices				
2.9						
2.9	Distances	Break				
2.10	Distances Coffee B	Break				
-	Coffee E Senso Energy saving potentials by using radar	Break				





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Track 3, Room 12a

Moderator: Siegfried W. Best

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Time	Track No.	Communication & Wireless				
09:20		Conference Ope	ning Track 3			
09:30	3.1	Revolutionizing IoT Connectivity with Next- Generation Network Technologies	Eyal Yasmin, Telit			
10:00	3.2	Understanding the importance of TSN and multi-gigabit Ethernet up to 10GBit/s in industrial and automotive applications	Goran Filimonovic, Toshiba Electronics Europe			
10:30	3.3	HTTP server implementation on a micro- controller using different frameworks and libraries, performance benchmark and analysis	Sergey Lyubka, Cesanta			
11:00		Coffee Break				
	n & Wireless					
11:30	3.4	Ultra-wideband Technology – Adding localization and Security	Mathias Laursen, LitePoint			
12:00	3.5	Antenna integration: 3 ways to double the communication range of your IoT device	Jukka Sjöstedt, Radientum			
12:30	3.6	Antenna design accelerated with digital twin technology	Johan Pedersen, Ignion			
13:00		Lunch E	Break			
		Software				
14:00	3.7	Unikernels and their relevance for deployment in mission critical applications	lan Ferguson, Lynx Software Technologies			
14:30	3.8	Software Platform using Zephyr and Container, a path to answer the CPU multi-sourcing issue	Nicolas Guilbaud, Lacroix			
15:00	3.9	Open Loop Testing – The missing link for platform testing?	Daniel Penning, embeff			
15:30		Coffee Break				
		Software Defined Vehicle				
16:00	3.10	The Foundation for an Open and Intelligent Mobility Edge: Software-Defined Vehicles, Road-Side Units, Linux, Containers and Open Horizon	Alexander Körner, IBM Deutschland			
16:30	3.11	How to make the Software Defined Vehicle a Reality	Thomas Brown, NXP Semiconductors			
17:00	3.12	Centralized Automotive Sensor Fusion – Solving the Challenges for Enhanced Autonomous Vehicle and ADAS Perception	Pier Paolo Porta, Ambarella			
17:30		End of Conference				

More information and registration under **electronica.de/eEPC**

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