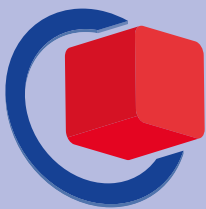




Nuremberg, Germany

February 23 – 25, 2016



**embeddedworld**

Exhibition&Conference

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**CONFERENCE PROGRAM**

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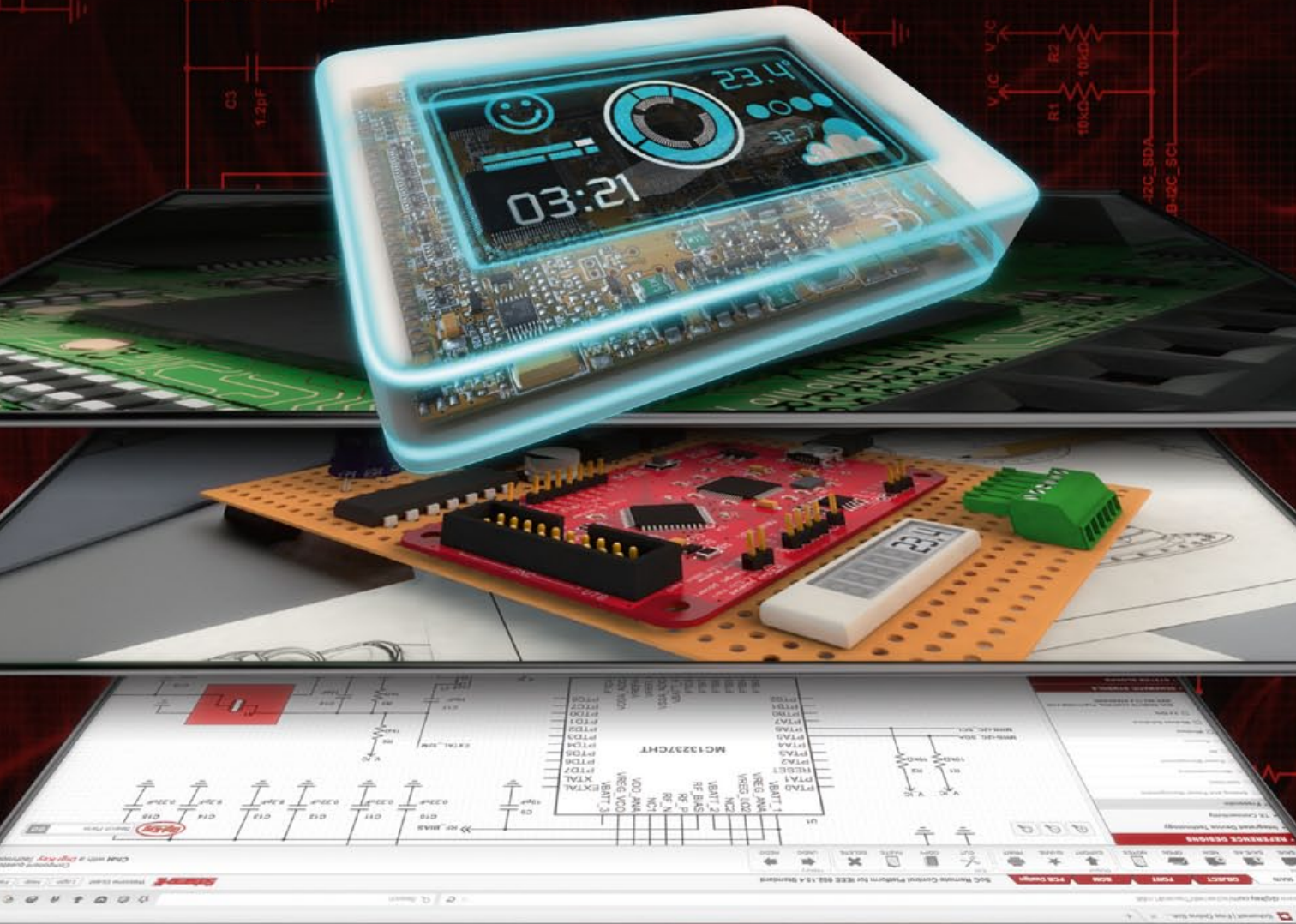
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## The Meeting Place for the Embedded Community's Brightest Minds

Prof. Dr. Matthias Sturm, Chairman of embedded world Conference steering board

What do you expect of a conference wholly devoted to embedded systems development and primarily targets hardware and software developers? Something special of course.

But how does it work? At the *embedded world* Conference the brightest minds from the embedded community meet to share and speak of the best, most efficient and most secure solutions for the challenges awaiting us. We are all breaking new ground, where knowledge and experience are not just what it takes to realize the vision of a world-spanning network. Instead it takes an exchange of visionary ideas and problem-solving approaches that become trends, become standards and then encompass the whole sector. And that is exactly what you find at the *embedded world* Conference, where engineers prepare the ground for engineers for this kind of exchange.

State-of-the-art is not our thing. Shaping the future, together and successfully has been the header of the *embedded world* Conference for many years now. In comparison with other more academic congresses this conference aims more at practical solutions, exactly what developers are looking for and expect when they attend a conference: expertise and solutions ready for and spread across applications.

Creating the Internet of Things calls for knowledge in very many areas. Complexity has now long become the major challenge in shaping the IoT. Disciplines merge, hardware and software development blend, management processes decide the success or failure of a development, systems engineering is an increasing focus, comprehending the complex relationships of an application in toto is a requirement for successful development.

How can you really grasp everything, put everything properly in place? This is where the *embedded world* Conference renders valuable support. Its clear structure, the choice of a significant range of topics and the focus on the essence are characterizing this event. It is not the unchecked collection of information that advances us but omitting some of it that gets us to the core of the matter. It is not the vast quantities of data in the cloud that mean progress but the findings from them, like profiles of natural events and relationships, that will help us to deal better and more sustainably with our resources.

That takes us back to the key topics of this year's *embedded world* Conference: the Internet of Things and its security.

On page 4/5 of this booklet you will find the six main fields of the conference, carefully selected by the steering board, that will guide you through the program by their different colors.

A highlight on the first day of the conference is no doubt the keynote from Eugen Kaspersky (Kaspersky Labs). It signals that as a community of developers we have recognized the necessity for secure communication paths. The merger of IT and embedded worlds is happening now. It is the look at the bigger picture, to a related sector, that benefits us all.

Development of the IoT and questions of securing Embedded Systems take up a large part of the conference. Plus, the traditionally much accentuated topics in and around software development and debugging again characterize the conference. But also management focus, a field established last year, again features in the program. New and heavily focused this year is systems engineering, handling complex systems. Here too the organizers expect much interest by those attending.

And the popular classes will also be staged in which participants get right down into technical details for half a day or a whole day.

The program of the *embedded world* Conference orients on the demands of the very latest Embedded Systems development and presents expertise and solutions ready for application, matched precisely to coming situations and demands.

To conclude these words of welcome I would like to thank all helpers hard-working in the background, the numerous international members of the program committee and my esteemed colleagues in the steering board who I think have again organized something very special in this program.

You, visitors to the conference, I wish a stimulating exchange of new ideas and solutions, a great gain in knowledge and insight in a vibrant atmosphere, to better and more easily master the immense challenges ahead. And nobody but we can do it, because WE ARE THE INTERNET OF THINGS.

Regards,

Prof. Dr. Matthias Sturm  
Chairman of embedded world Conference steering board

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# CONFERENCE PROGRAM

	SECURITY & SAFETY		INTERNET OF THINGS			SOFTWARE &
<b>DAY 1:</b> Tuesday, February 23, 2016	Securing IoT Devices I: Hardware Focus	Class: A Holistic Approach to Embedded Security	Connecting Embedded Devices			Systems Engineering I: Requirements Engineering, Standards & Tools
	Securing IoT Devices II: Automotive Focus					Systems Engineering II: Architecture & Real-Time Aspects
<b>DAY 2:</b> Wednesday, February 24, 2016	Securing IoT Devices III: Communication Focus	Functional Safety	Wireless Technologies	Class: Embedded Wireless – Implementing Tiny Embedded Wireless Solutions	Internet of Things I: IoT Overview	Software Engineering I: Software Quality
	Securing IoT Devices IV: Industrial Focus					Internet of Things II: IoT Architectures, Gateways & Testing
<b>DAY 3:</b> Thursday, February 25, 2016	Securing IoT Devices V: Parry Attacks	Class: The Secure Software Development Lifecycle	Bus Systems & Network Technologies		Internet of Things III: IoT Solutions	Class: AUTOSAR beyond Automotive
	Securing IoT Devices VI: Platforms & Layers					Class: With Open Source to an IoT Sensor

## KEYNOTE-SPEAKERS



**Eugene Kaspersky, Kaspersky Lab**  
**Conference Keynote: The Long Hard Road Out of the Cyber Dark Ages**  
 February 23rd, 1:30 PM

Eugene Kaspersky is a world-renowned cybersecurity expert and successful entrepreneur. He is the chairman and CEO of Kaspersky Lab, the world's largest privately-held vendor of endpoint protection and cybersecurity solutions. Eugene began his career in cybersecurity accidentally when his computer became infected with the 'Cascade' virus in 1989. Eugene's specialized education in cryptography helped him analyze the encrypted virus, understand its behavior, and then develop a removal tool for it. In 1997 Eugene and a group of associates founded Kaspersky Lab, which now has more than 3000 employees and operates all over the world.



**Dr. Alexander Lautz, Deutsche Telekom**  
**Keynote: The Next Decade of IoT Networks**  
 February 24th, 9:30 AM

Alexander Lautz is currently Senior Vice President M2M at Deutsche Telekom. In this role, he has the overall responsibility for the group-wide M2M business at Deutsche Telekom. Mr. Lautz joined T-Mobile Deutschland GmbH in 2002, first as Head of Business Marketing, before taking over as Head of Consumer Marketing in 2004. When Deutsche Telekom launched congstar as its second brand in Germany in 2007, Mr. Lautz took over as Managing Director of the newly founded company. In 2011, he moved to T-Systems International GmbH, where he was responsible for implementing innovative B2B2C products and solutions within the business units Connected Car and later Connecting Customers. Before his career at Deutsche Telekom, Mr. Lautz held different management positions at both CNI GmbH and Mannesmann Arcor AG and was Managing Director of an IP provider for business customers.

SYSTEMS ENGINEERING		HARDWARE ENGINEERING	EMBEDDED OS			MANAGEMENT FOCUS
Ultra Low Power		Cortex	Embedded OS I: Make Your Choice		The Mc Guire Classes I: Introduction to Linux-RTOS (PREEMPT_RT)	Management Focus I: Agile Methods
	The Greg Davis Classes I: Writing Embedded C/ C++ Code	Multicore	Embedded OS II: Android			Management Focus II: New Business Opportunities
		Designing with SoCs and FPGAs	Embedded Linux	Class: Model-based Software Development Based on Eclipse	The Mc Guire Classes II: GNU/Linux for Safety-Critical Systems	
	The Greg Davis Classes II: Tools, Techniques & Rules for Secure & Reliable C/C++ Code					
Class: Ultra Low Power Workshop				Class: Embedded Android Workshop	Class: Introduction to Embedded Linux – a Short Crash Course	The Mc Guire Classes III: Legal Aspects of Using Open Source Software in Industrial Products
	The Greg Davis Classes III: A View into Greg's Toolbox – Methods & Advanced Optimization					

STEERING BOARD



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**Prof. Dr. Matthias Sturm**  
Conference Chair  
HTWK Leipzig  
Fakultät Elektrotechnik  
und Informationstechnik

# CONFERENCE PROGRAM

	<b>Session 01: Securing IoT Devices I: Hardware Focus</b>	<b>Session 03/I: Connecting Embedded Devices</b>	<b>Session 04: Systems Engineering I – Requirements Engineering, Standards &amp; Tools</b>
09:30-10:00	<b>Do You Need Tamper Resistant Chips for Security of Connected Devices?</b> Lionel Belnet, Laurent Erner, ARM	<b>One-cable Connectivity for Embedded Systems</b> Micha Risling, Valens	<b>Change Driven Requirements Management in a Multi-tool Environment</b> Bernd Roeser, agosense
10:00-10:30	<b>Attacks on Embedded Devices – How Secure is Your Chip?</b> Marcus Janke, Dr. Peter Laackmann, Infineon Technologies	<b>Internet of Things (IoT) in Automotive or the Connected Car</b> Arnaud van den Bossche, Freescale Halbleiter Deutschland	<b>Requirements in the Flow: Strategy for Keeping Specifications Alive with Enterprise Architect</b> Jon Kowal, DSPECIALISTS Digitale Audio- und Messsysteme
10:30-11:00	<b>Complete IoT Security: Securing IoT Gateways and Endpoints</b> Alan Grau, Icon Labs; Warren Kurisu, Mentor Graphics	<b>Accelerating the Development of Ethernet AVB-based Devices in Automotive with Prototyping</b> Marc Serughetti, Synopsys	<b>Requirements Traceability: Then, Now &amp; Tomorrow</b> Mark Richardson, LDRA Software Technology
11:00-11:30	Coffee Break		
11:30-12:00	<b>Architecting Cybersecure IoT Systems Using New Programmable SoC Multi-layer Security</b> Dan Isaacs, Xilinx; Robert Day, Lynx Software Technologies	<b>Interoperability from Sensor to the Cloud: Opc UA Stack Becomes Embedded and Scaleable</b> Günther Trautzl, Euros Embedded	<b>Towards Standards Federation for Engineering Data &amp; Tool Interoperability in Cyber-Physical</b> Dr. Frederic Loiret, KTH and OFFIS; Jürgen Niehaus, Safe TRANS
12:00-12:30	<b>Securing IoT Devices Using Big Data and Contextual Analytics</b> David Dufour, Webroot	<b>Small Sensors, Big Impact – Smarter Manufacturing with Distributed Wireless Sensors</b> Matthias Kassner, EnOcean	<b>Systems and Software Engineering Standards and Open Source Tools for Very Small Enterprises – A Case Study</b> Prof. Claude Laporte, École de technologie supérieure; Ronald Houde, Mannarino Systems & Software
12:30-13:30	Lunch Break		
13:30-14:30	<div style="text-align: center;">  <p><b>Conference Keynote:</b> <b>The Long Hard Road Out of the Cyber Dark Ages</b> Eugene Kaspersky, Kaspersky Lab</p> </div>		
	<b>Session 02: Securing IoT Devices II: Automotive Focus</b>	<b>Session 03/II: Connecting Embedded Devices</b>	<b>Session 05: Systems Engineering II – Architecture &amp; Real-Time Aspects</b>
14:30-15:00	<b>Preventing Electronic Car Hi-Jacking: MIPS Microcontrollers with Hardware Virtualization</b> Munir Hasan, Imagination Technologies	<b>An Overview on Alliances and Ecosystems for Home and Building Automation</b> Fesseha Tsegaye Mamo, Prof. Dr. Axel Sikora, Offenburg University of Applied Sciences	<b>IoT in the Lab: Staging and Testing for the Real World</b> Dr. Jakob Engblom, Wind River
15:00-15:30	<b>Securing the Connected Car</b> Joe Fabbre, Green Hills Software	<b>Enhance Industrial or Consumer Applications with Low Cost NFC Link</b> Martin Vacek, Yvon Gourdou, STMicroelectronics	<b>The Impact of the New Generation of System-on-Chips on Your Architecture and Design</b> Rieny Rijnen, Topic Embedded Systems
15:30-16:00	Coffee Break		
16:00-16:30	<b>Risks and Opportunities in Car-to-X Environments</b> Sebastian Rohr, accessec	<b>Enabling Medical Device Connectivity without Compromising Security</b> Chris Ault, QNX Software Systems	<b>Real-Time Analysis for Embedded Devices</b> Rolf Segger, Dirk Akemann, SEGGER Microcontroller
16:30-17:00	<b>Mapping a Mitigation Plan: Top 4 Best Practices for Preventing Automotive Cybersecurity Vulnerabilities</b> Rod Cope, Rogue Wave Software	<b>Li-Fi Interconnects for Embedded Designs in Industry 4.0</b> Michael Faulwäßer, Dr. Frank Deicke, Fraunhofer Institute for Photonic Microsystems IPMS	<b>Practical Event Monitoring in the LogicGuard Framework</b> Dr. David Cerna, Johannes Kepler University Linz
17:00-17:30	<b>Security for the Next Generation of Safe Real-time Systems</b> Jon Taylor, ARM	<b>Enabling Ubiquitous, Secure Connectivity for Embedded Devices</b> Todd Greene, PubNub	<b>GPU-Assisted Hard Real-time Processing: Problems and Potentials</b> Prof. Wolfgang Mauerer, Siemens AG/OTH Regensburg

Session 06: Cortex	Session 08: Embedded OS I – Make Your Choice	Session 10: Management Focus I: Agile Methods	Session 12: Ultra Low Power
<b>Introduction to ARM Cortex-M Microcontrollers</b> Chris Shore, ARM	<b>Embedded Linux vs Proprietary RTOS – the Development Cycle Comparison</b> Marcus Nissemark, Green Hills Software	<b>Untangled: A Plan to Embrace the Three Biggest Impacts on Embedded Development Today</b> Rod Cope, Rogue Wave Software	<b>Selecting Microcontrollers for IoT and Other Battery-Powered Applications</b> Frank Riemenschneider, WEKA FACHMEDIEN; Markus Levy, EEMBC
<b>ARM SoC Architecture for Next Generation PLCs and Robotics</b> Jens Stapelfeldt, Xilinx	<b>An Efficient Interrupt Management to Avoid Frequent Deadline Misses in Real-Time Systems</b> Jan-Philipp Schmidt, Prof. Michael Weyrich, University of Stuttgart	<b>Being Agile is Not Enough</b> Joachim Pfeffer, peppair	<b>Seven Essential Low-power Software Techniques for MCU Embedded Developers</b> Dung Dang, Texas Instruments
<b>The Next Steps in the Evolution of Embedded Processors for the Smart Connected Era</b> Joseph Yiu, ARM	<b>Security for Real-Time Operating Systems Running on ARM Cortex-M</b> Reinhard Keil, ARM	<b>Agile and Beyond: How Far Can You Go in Embedded Software Development?</b> Anders Wallgren, Electric Cloud	<b>Affordable Energy Autonomous Wireless Sensor for Day and Night</b> Prof. Dr. Marcel Meli, ZHAW InES

Coffee Break

<b>DC-DC Efficiency Optimization with High-resolution Dead Time with a Low Computation Algorithm in the XMC4200 ARM Cortex M4F</b> Pedro Costa, Infineon Technologies; Dr. Candido Duarte, University of Porto	<b>Best of Two Worlds: Running Erlang on RTEMS</b> Peer Stritzinger, Dipl.Phys. Peer Stritzinger	<b>Change-Based Testing in Agile Development Environments</b> Ingo Nickles, Vector Software	<b>Vibration Energy Harvesting Sensor Node with Bluetooth Smart Communication</b> Simon Mathis, Dr. Juan-Mario Gruber, Zurich University of Applied Sciences (ZHAW)
<b>Designing Wearable and Smart Power Efficient Applications</b> Francois Druilhe, STMicroelectronics	<b>Windows 10 IoT Core: From the Embedded Device to the Cloud and Back</b> Valter Minute, Toradex	<b>Kanban in Agile Requirements Engineering for Software and Systems Development</b> Markus Unterauer, Software Quality Lab	<b>Increased Efficiency in a Vibration Based Energy Harvesting System by Using a SSHI Circuit</b> Dr. Juan-Mario Gruber, Zurich University of Applied Sciences (ZHAW)

Lunch Break

**Conference Keynote:**  
**The Long Hard Road Out of the Cyber Dark Ages**  
 Eugene Kaspersky, Kaspersky Lab

Session 07: Multicore	Session 09: Embedded OS II – Android	Session 11: Management Focus II: New Business Opportunities
<b>Power-aware Multicore Software Development</b> Miguel Aguilar, RWTH Aachen University; Prof. Rainer Leupers, Silexica Software Solutions	<b>Realtime Android for Industry</b> Pierre Ficheux, Open Wide	<b>Analysing the IoT Ecosystem: The Barriers to Commercial Traction</b> Dr. Duncan Bremner, University of Glasgow
<b>Mastering Embedded Multi- and Many-core Systems with AMALTHEA</b> Joerg Tessmer, Robert Bosch	<b>UDOO IoT: Integration and Simplicity</b> Prof. Antonio Rizzo, Gianluca Venere, University of Siena	<b>Building up Homogenous and Secure ULE-IoT-Solutions with Open Standards and Open Source Software</b> Clemens Scherzinger, KUNDO xT

Coffee Break

<b>Heterogeneous Multicore Processing: What Is It and Why Do You Need It</b> Glenn Steiner, Xilinx	<b>Infotainment Systems Based on Android OS</b> Eylon Gushpantz, Linux4biz	<b>It's the Software ... Unless it's the Hardware!</b> Juergen Jaeger, Cadence Design Systems
<b>Mechanism to Synchronize Multicore Start Execution</b> Razvan Ionescu, Radu Ivan, Freescale Semiconductor	<b>Android Platform Debugging and Development</b> Karim Yaghmour, Opersys	<b>Service is the Product – How IoT Affects Business Models and Organizations</b> Matthias Pruksch, sepp.med
<b>Making Full Use of Emerging ARM-based Heterogeneous Multicore SoCs</b> Felix Baum, Mentor Graphics	<b>Migration of your Existing Windows Applications to Android</b> Mike Rohrmoser, Digi International	<b>New Business Opportunities: Flexible Licensing Models in the Internet of Things</b> Michael Gaudlitz, SafeNet / Gemalto

**Want more?**  
 See page 12/13 for additional classes!

# CONFERENCE PROGRAM

09:30-10:00	 <p><b>Keynote:</b> <b>The Next Decade of IoT Networks</b> Dr. Alexander Lautz, Deutsche Telekom</p>		
10:00-10:30	Coffee Break		
	<b>Session 13: Securing IoT Devices III: Communication Focus</b>	<b>Session 15/I: Wireless Technologies</b>	<b>Session 16: Software Engineering I – Software Quality</b>
10:30-11:00	<b>Building Trust from Sensos to Servers</b> Richard York, ARM	<b>Feedback Mechanisms for Bluetooth Smart</b> Tiziano Fabbioni, Dr. Juan-Mario Gruber, Zurich University of Applied Sciences	<b>Software Failures: Case Studies of High-profile Examples</b> Dr. Paul Anderson, GrammaTech
11:00-11:30	<b>Dangerous Liaisons: Securing Embedded Communications</b> Andrey Nikishin, Kaspersky Lab	<b>Energy Requirements of the New Generation of Bluetooth Smart Devices (2014-2015)</b> Prof. Dr. Marcel Meli, Mathias Gugg, ZHAW InES	<b>Software Quality Standards – Overkill or Insufficient?</b> Gudrun Neumann, SGS-TÜV Saar
11:30-12:00	<b>Secure-Boot-Secure Your Embedded Device</b> Dr. Sergey Tverdyshev, SYSGO	<b>Bluetooth Smart and Internet in the Internet of Things</b> Krishna Shingala, Pär Håkansson, Nordic Semiconductor	<b>Advanced Code Coverage</b> Frank Büchner, Hitex
12:00-12:30	<b>Proven Security for the Internet of Things</b> Dr. Dominique Bolignano, Prove & Run	<b>Designing and Implementing Bluetooth Smart Profiles with Bluetooth Developer Studio</b> Martin Woolley, Bluetooth SIG	<b>Embedded Software as an Integrated Product</b> Giancarlo Parodi, Renesas Electronics Europe
12:30-13:30	Lunch Break		
	<b>Session 14: Securing IoT Devices IV: Industrial Focus</b>	<b>Session 15/II: Wireless Technologies</b>	<b>Session 17: Software Engineering II – Analysis, Testing &amp; Design</b>
13:30-14:00	<b>Creating an Intelligent, Safe and Secure Internet of Things</b> Miloslav Kafka, Flex	<b>Flexible and Open Source Usage of LoRaWAN</b> David Rahusen, Daniel Jäckle, STACKFORCE	<b>Advanced Static Analysis for the Internet of Things</b> Dr. Paul Anderson, GrammaTech
14:00-14:30	<b>Securing Embedded Industrial Systems – Application Example Hardware-based Security for PLCs</b> Arno Rabenstein, Infineon Technologies; Christian Krieger, EBV Elektronik	<b>Generic Wireless Systems for IoT and Industry 4.0</b> Prof. Dr. Jörg Wollert, Fachhochschule Aachen	<b>Automated Tests for Embedded Software Using Hedgehog</b> Christoph Stoidner, Konrad Hubert, arvero
14:30-15:00	<b>Security for Industrial IoT Embedded Devices: A Linux Platform-based Approach</b> Carlos Pazos, Rob Mixer, National Instruments	<b>Interoperability in the IoT – Crossing the Chasm</b> Avi Barel, ULE Alliance	<b>On Real-time Measurement Techniques</b> Ulrich Dreher, iss innovative software services
15:00-15:30	<b>Security vs. Realtime – Challenges on Industrial Fieldbusses</b> Prof. Dr. Jörg Wollert, Fachhochschule Aachen	<b>Small Antenna, Full Performance: Improved NFC Transfer Under Harsh Conditions</b> Renke Bienert, NXP Semiconductors	<b>Finding all Potential Run-Time Errors and Data Races in Automotive Software</b> Dr. Daniel Kästner, Dr. Laurent Mauborgne, AbsInt
15:30-16:00	Coffee Break		
16:00-16:30	<b>Securing the Edge – Billions of IoT Devices Means Billions of Possible Intrusion Points</b> Steven Tateosian, Freescale Semiconductor	<b>Size Reduction of RFID Tags by Using On-Chip-Antennas</b> Dr. Michael Heiss, Sascha Lischer, Fraunhofer IPMS	<b>AUTOSAR Unleashed</b> Ulrich Dreher, iss innovative software services
16:30-17:00	<b>Industrial IoT Will Require Embedded Hardware Security</b> Konrad Scheuer, Maxim Integrated	<b>Adapting 60GHz WirelessHD Technology for Industrial Applications</b> Joachim Müller, Lattice Semiconductor	<b>Model Versioning – The Challenge in Embedded Systems Engineering</b> Dr. Konrad Wieland, LieberLieber Software
17:00-17:30	<b>Securing Industrial Systems Through Authentication – The Benefits of Secure Identities in Industrie 4.0</b> Timo Grassmann, Infineon Technologies; Bartol Filipovic, Fraunhofer Research Institution AISEC	<b>A Wi-Fi Direct System Architecture for Proximity-based Applications</b> Dr. Amin Mazloumian, ZHAW	<b>Resource Management for Future Automotive Software Architectures</b> Dr. Kai Richter, Syntavision; Dr. Andreas Schulze, Volkswagen

**Keynote:**  
**The Next Decade of IoT Networks**  
 Dr. Alexander Lautz, Deutsche Telekom

Coffee Break

<b>Session 18/I: Designing with SoCs and FPGAs</b> MCUs or Custom SoCs – Which is the Right Solution for Your IoT Product? Tim Menasveta, Phillip Burr, ARM Enhanced Security and Energy Efficiency of Microcontrollers and SoCs Joseph Yiu, ARM Using Mobile Processors for General Purpose Industrial Signal Processing Hans-Joachim Gelke, ZHAW InES Develop Embedded Applications which are Sharing Workload Between a Microcontroller and a Microprocessor Alexander Weggerle, Intel Deutschland	<b>Session 19: Internet of Things I – IoT Overview</b> Open Source Fueling the Growth of the Internet of Things Mark Skarpness, Intel Internet of Things and Industry 4.0 Predictions – the Software and Product Development Perspective Dr. Stefano Rizzo, Polarion Software A Use Case / User Driven Approach to Implement New IoT Business Cases Jens Uhlig, M2MGO Standardization of Embedded Interfaces for IoT Wolfgang Eisenbarth, Portwell Deutschland	<b>Session 21/I: Embedded Linux</b> Selecting an Operating System for IoT Devices – Is Linux the Solution? Philipp Michel, Wind River How did Linux Become a Mainstream Embedded Operating System? Chris Simmonds, 2net Comparison of Virtualized and Non-virtualized Embedded Systems Rolland Dudemaine, Green Hills Software Linux Quick Boot Anthony Pellerin, Adeneo Embedded
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**Want more?**  
 See page 12/13 for additional classes!

Lunch Break

<b>Session 18/II: Designing with SoCs and FPGAs</b> Demystifying 3D Multi-Object Recognition Using Programmable SoCs in Smart Camera Applications Dan Isaacs, Xilinx; Dr. Michael Fawcett, iVea From Verilog to Linux: Coherency in the Classroom by Empowering Academics with an Industrial MIPS Processor and a System on Chip Design Which Runs Linux Zubair Lutfullah Kakakhel, Imagination Technologies Designing FPGA-Accelerators for Linux Software Using High-Level Synthesis Dr. Endric Schubert, Missing Link Electronics, Lisa Halder, University of Ulm Implementation of Safe Vision Systems in FPGAs Using High-level Descriptions Prof. Hans Dermot Doran, Zürich University of Applied Sciences; Michael Zapke, Xilinx	<b>Session 20: Internet of Things II – IoT Architectures, Gateways &amp; Testing</b> The Pragmatic IoT Approach – From Sensors to Controlling Devices Ansgar Hein, ies Challenges in Synthesizing IoT/CPS Applications onto Upcoming Timed Platforms Hugo Andrade, Patricia Derler, National Instruments Fast IoT Solution Based on System On Modules Amir Sherman, Arrow Comparing UNB, GSM and other RF Networks for Communication with "Small Data" IoT Devices Dr. Peter Sauer, Atmel Automotive	<b>Session 21/II: Embedded Linux</b> SELinux and SMACK: Introduction to Security Frameworks for Embedded Linux Chris Hallinan, Mentor Graphics Building a Linux Based Reference Platform for Automotive Infotainment and Driver Information Systems Andrew Patterson, Mentor Graphics How to Avoid Writing Device Drivers for Embedded Linux Chris Simmonds, 2net Using OpenPOWERLINK over Xenomai Pierre Ficheux, Open Wide
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<b>Session 22: Functional Safety</b> Functional Safety for Industrial and Home Appliance Powered by ARM Cortex-M Devices Dr. Kurt Böhringer, Hitex Safety and Security, the Future for Assisted and Autonomous Driving Dr. Frank van den Beuken, PRQA Safety-Critical Functions in Distributed Environments Dr. Olaf Winne, LAMTEC Leipzig New 32 bit Embedded Microcontroller, Next Generation of Safety Dr. Kurt Böhringer, Hitex
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Coffee Break

<b>PCI Express over IP, Accelerated – A Low Latency Fabric for System-of-Systems</b> Dr. Endric Schubert, Missing Link Electronics; Andreas Braun, University of Ulm XML to VHDL: Rapid SoC Design Techniques for Small FPGAs Martin Strubel, section5/Strubel SW solutions Challenges at the Core of IoT Implementation Helmut Demel, Lattice Semiconductor	<b>An Internet of Things Gateway Based on Embedded Browser and Hardware Plugins</b> Jack Wong, Zetakey Solutions End-to-end Testing for IoT Integrity Prof. Mark Lambert, Prof. Mirek Zielinski, Parasoft Making the Right Connection: Understanding Wireless Protocol Options for the IoT Adnan Nishat, Silicon Labs	<b>Using Yocto to Create Linux Systems for Custom Specific Hardware Boards</b> Christoph Stoidner, arvero Tux Airborne: Encapsulating Linux – Real-time, Safety, and Security with a Trusted Microhypervisor Michael Roeder, Avnet EMG; Dr. Michael Hohmuth, Kernkonzept
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<b>Providing Functional Safety and Security for Multicore Systems</b> Dr. Riccardo Mariani, Dr. Michele Borgatti, Yogitech <b>Functional Safety on Multicore Microcontrollers for Industrial Applications</b> Thomas Barth, Prof. Peter Fromm, Hochschule Darmstadt <b>Software is Running! Why Test?</b> Dr. Antje Dau, Hitex
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	<b>Session 23: Securing IoT Devices V: Parry Attacks</b>	<b>Session 25/I: Bus Systems &amp; Network Technologies</b>	<b>Session 26: Internet of Things III – IoT Solutions</b>
09:30-10:00	<b>New Ways of Protecting Your Device Against Hacking and IP-theft</b> Dirk Akemann, Rolf Segger, SEGGER Microcontroller	<b>Time Sensitive Networking, the Real-Time Ethernet Specified in IEEE 802</b> Prof. Hans Weibel, Zurich University of Applied Sciences	<b>Microservices Architectures and Open Standards – Future Proofing and Ensuring Interoperability in Your IoT and Embedded Designs</b> Joakim Hedenstedt, Tommi Leino, Movial
10:00-10:30	<b>The Connected Embedded Devices of the IoT: A Playground for Malicious Agents, or an Opportunity for Manufacturers to Innovate?</b> Will Keegan, Lynx Software Technologies	<b>Ethernet in Vehicle Communication – Simulation of Ethernet-based Vehicle Communication</b> Patrick Wunner, Kristian Trenkel, iSyst Intelligente Systeme	<b>On the Internet of Things, Which Database System Architecture Fits?</b> Steven Graves, McObject
10:30-11:00	<b>Comparison of Cryptographic Implementations for Embedded TLS</b> Andreas Walz, Prof. Dr. Axel Sikora, Offenburg University of Applied Sciences	<b>Finding Good Ethernet Packaging Strategies to Minimize Software Overhead Cost – A Case Study</b> Dr. Karsten Schmidt, Audi Electronics Venture; Maurice Sebastian, Symtvision	<b>SUSI, the Lean Application-Server for the Internet of Things</b> Stephan Wirsich, webvariants
11:00-11:30	Coffee Break		
11:30-12:00	<b>Designing Security into Constrained IoT Systems</b> Mike Eftimakis, ARM	<b>NDCIom: Simple Protocol for Heterogeneous Embedded Communication Networks</b> Martin Zenzes, Tobias Stark, DFKI Bremen	<b>The Perfect Fit – Develop Tailored IoT Solutions with Eclipse IoT, Java EE and Code Generation</b> Marcus Munzert, Heinz Rohmer, Generative Software
12:00-12:30	<b>Security Considerations for IoT – How to Secure Your Networked Devices</b> Joakim Hedenstedt, Janne Langi, Movial	<b>Processor Loading for a Router in a Connected Home Network</b> Lars Lydersen, Silicon Labs	<b>Web Interfaces Running on Embedded Devices with Node.js</b> David Müller, Incloud
12:30-13:30	Lunch Break		
	<b>Session 24: Securing IoT Devices VI: Platforms &amp; Layers</b>	<b>Session 25/II: Bus Systems &amp; Network Technologies</b>	
13:30-14:00	<b>Securing the IoT – Combining Platform Protection with Cloud-based Threat Intelligence</b> Robert Day, Lynx Software Technologies; David Dufour, Webroot	<b>USB3: All You Need to Know</b> Colin Walls, Mentor Graphics	
14:00-14:30	<b>Do You Trust Me? – Mitigating Security Risks in the Bluetooth Low Energy Domain</b> Frank Audun Kvamtrø, Nordic Semiconductor	<b>New Functions for Embedding Fieldbus in IoT Applications</b> Reiner Zitzmann, Oskar Kaplun, CAN in Automation	
14:30-15:00	Coffee Break		
15:00-15:30	<b>The Evolution of the Security Features of Bluetooth Smart since its First Release and the Impact to the IoT</b> Matthias Lai, Urban Himmelsbach, NewTec	<b>Migration from CAN to CAN FD – How to Boost Network Performance</b> Dr. Ralf Hildebrandt, Dr. Frank Deicke, Fraunhofer Institute for Photonic Microsystems IPMS	<p><b>Want more?</b> See page 12/13 for additional classes!</p>
15:30-16:00	<b>Peeling the Layers of Security for IoT Applications</b> Lars Lydersen, Silicon Labs	<b>The Value of Answering the “Where” Question for the IOT</b> Mickael Viot, Decawave	
16:00-16:30	<b>Controlling the Internet of Things with Mobile Apps</b> Steffen Müller, Incloud	<b>IoT Needs Good Neighbours – Cognitive Radio Turns Enemies into Friends</b> Steve Clarke, AMIHO Technology	



**Venue: NürnbergMesse,  
Messezentrum NCC Ost,  
90471 Nuremberg, Germany**

**Details and Registration:  
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Conference Organizer:  
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Richard-Reitzner-Allee 2  
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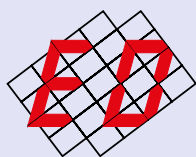
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# CONFERENCE PROGRAM

## TUESDAY, FEBRUARY 23, 2016

09:30-12:30	<b>Class 01: The Mc Guire Classes I – Introduction to Linux-RTOS (PREEMPT_RT)</b>		<b>Class 03: A Holistic Approach to Embedded Security</b>
	<b>Introduction to Linux-RTOS (PREEMPT_RT)</b> Prof. Nicholas Mc Guire, OSADL		<b>The ESCRYPT Class: A Holistic Approach to Embedded Security</b> Details see opposite page
14:30-17:30		<b>Class 02: The Greg Davis Classes I – Writing Embedded C/C++ Code</b>	
		<b>Writing Embedded C/C++ Code</b> Greg Davis, Green Hills Software	

## WEDNESDAY, FEBRUARY 24, 2016

10:30-12:30	<b>Class 04: The Mc Guire Classes II – GNU/Linux for Safety-Critical Systems</b>	<b>Class 05: Model-based Software Development Based on Eclipse</b>	<b>Class 07: Embedded Wireless – Implementing Tiny Embedded Wireless Solutions</b>
	<b>GNU/Linux for Safety-Critical Systems</b> Prof. Nicholas Mc Guire, OSADL	<b>Model-based Software Development Based on Eclipse</b> Details see opposite page	<b>Embedded Wireless – Implementing Tiny Embedded Wireless Solutions</b> Prof. Dr. Jörg Wollert, Fachhochschule Aachen
13:30-14:30		<b>Class 06: The Greg Davis Classes II – Tools, Techniques &amp; Rules for Secure and Reliable C/C++ Code</b>	
		<b>Tools &amp; Techniques for Hack-proofing your Code</b> Greg Davis, Green Hills Software	
14:30-15:30		<b>Concurrency Problems in Traditional C/C++</b> Greg Davis, Green Hills Software	
16:00-17:30		<b>Understanding MISRA C/C++</b> Greg Davis, Green Hills Software	

## THURSDAY, FEBRUARY 25, 2016

09:30-12:30	<b>Class 08: The Mc Guire Classes III – Legal Aspects of Using Open Source Software in Industrial Products</b>		<b>Class 10: AUTOSAR Beyond Automotive – Learning from the Past, Preparing the Future</b>
	<b>Legal Aspects of Using Open Source Software in Industrial Products</b> Prof. Nicholas Mc Guire, OSADL		<b>AUTOSAR Beyond Automotive – Learning from the Past, Preparing the Future</b> Prof. Peter Fromm, Hochschule Darmstadt
13:30-15:30		<b>Class 09: The Greg Davis Classes III – A View into Greg's Toolbox – Methods &amp; Advanced Optimization</b>	<b>Class 11: With Open Source to an IoT Sensor</b>
		<b>Programming with C/C++11 Atomics and Shared Memory</b> Greg Davis, Green Hills Software	<b>From Soup to Nuts – Building an IoT Sensor with Open Source Hardware &amp; Software</b> Adrian Fernandez, Texas Instruments
15:30-16:30		<b>Advanced Compiler Optimizations</b> Greg Davis, Green Hills Software	

Class 03: A Holistic Approach to Embedded Security – Details	
09:30-09:45	<b>Welcome</b> Carina Böttcher, ECRYPT
09:45-10:10	<b>What are the Preconditions to Integrate Security to the Life Cycle?</b> Priyamvada Vembar, ETAS
10:10-10:35	<b>A Brief Introduction into IT Security for Applications</b> Prof. Dr. Jan Pelzl, ECRYPT; Prof. Dr. Krenz-Baath, Hochschule Hamm Lippstadt
10:35-11:00	<b>Cybersecurity Risk Assessment for Automated Vehicles</b> Prof. Dr. André Weimerskirch, University of Michigan
11:00-11:30	Coffee Break
11:30-12:00	<b>High Level State of the Art V2X Security Solutions</b> Dr. Norbert Bißmeyer, ECRYPT
12:00-12:30	<b>Vehicular Security: Not Just an Embedded Problem</b> Jack Weast, Intel
12:30-13:30	Lunch Break
13:30-14:00	<b>Introduction to Secure Coding</b> Jan Wolff, ETAS
14:00-14:30	<b>Safety and Security with Hypervisor Technology</b> Gary Morgan, ETAS
14:30-15:00	<b>Practical Security Evaluation</b> Dr. Frank Schuhmacher, Segrids
15:00-15:30	<b>Security for Industrial Control Systems (ICS) using IEC 62443</b> Dr. Thomas Störtkuhl, TÜV SÜD Rail
15:30-16:00	Coffee Break
16:00-16:30	<b>Secure from the Start – Challenges of Key Injection</b> Matthias Küster, ECRYPT
16:30-17:00	<b>Secure Software Update over the Air</b> Jan Murlewski, Arynga
17:00-17:30	<b>Secure Feature Activation</b> Michael Zunke, SafeNet
Class 05: Model-based Software Development Based on Eclipse – Details	
10:30-11:00	<b>Keynote</b> Ralph Müller, Eclipse Foundation Europe
11:00-11:30	<b>Enabling Embedded Automotive Software Development: a Toolchain built on Eclipse</b> Dr. Christian Schenk, Bernhard Becker, Robert Bosch
11:30-12:00	<b>Why Eclipse has established itself as the platform for engineering and modeling tools in Automotive</b> Andreas Graf, itemis
12:00-12:30	<b>Safe, Secure and Efficient Code with textual and graphical model based development tools in Eclipse</b> Dr. Darren Buttle, ETAS

**Classes:**

In the sessions of the conference program you hear developers and decision-makers present a variety of ideas for solutions and their experience in Embedded Systems development in concise half-hour talks. Plus a summary view of selected technologies and current trends.

Quite different the classes – in workshops lasting half a day or throughout the day reputed experts speak on special topics. This format is aimed primarily at participants who want to familiarize basically, thoroughly and efficiently in a subject matter. Straightforward dialog with the experts helps to clarify specific questions. And is an excellent opportunity of quickly expanding your current expertise. The classes are didactic to guarantee maximum learning goals.

With classes on topics like (Embedded) Linux, Eclipse, Android, C/C++, Development Methodology, Security, Safety, Wireless, AUTOSAR or Ultra Low Power the embedded world Conference covers in detail a broad range of substantial aspects of Embedded System development. To offer developers competent technical groundwork both compact and concentrated.

Be sure to register now!

Class 12: The Secure Software Development Lifecycle	Class 13: Introduction to Embedded Linux – A Short Crash Course	Class 14: Embedded Android Workshop	Class 15: Ultra Low Power Workshop
<b>Secure Software Development Lifecycle Training</b> Dr. Carl Shaw, Dr. Richard Storer, MathEmbedded; Adrian Thomasset, Doulos	<b>Introduction to Embedded Linux – a Short Crash Course</b> Robert Berger, Reliable Embedded Systems	<b>Embedded Android Workshop</b> Karim Yaghmour, Opersys	<b>Ultra Low Power Workshop</b> Herman Roebbers, Altran

Please tick:

**CLASSES**

**embedded world Conference 2016**

	Tuesday, Feb. 23, 2016		Wednesday, Feb. 24, 2016		Thursday, Feb. 25, 2016	
	am	pm	am	pm	am	pm
<b>Class 01</b> The Mc Guire Classes I – Introduction to Linux-RTOS (PREEMPT_RT)	<input type="checkbox"/>	<input type="checkbox"/>				
<b>Class 02</b> The Greg Davis Classes I – Writing Embedded C/C++ Code		<input type="checkbox"/>				
<b>Class 03</b> A Holistic Approach to Embedded Security	<input type="checkbox"/>					
<b>Class 04</b> The Mc Guire Classes II – GNU/Linux for Safety-Critical Systems			<input type="checkbox"/>			
<b>Class 05</b> Model-Based Software Development Based on Eclipse			<input type="checkbox"/>			
<b>Class 06</b> The Greg Davis Classes II – Tools, Techniques & Rules for Secure and Reliable C/C++ Code				<input type="checkbox"/>		
<b>Class 07</b> Embedded Wireless – Implementing Tiny Embedded Wireless Solutions			<input type="checkbox"/>			
<b>Class 08</b> The Mc Guire Classes III – Legal Aspects of Using Open Source Software in Industrial Products					<input type="checkbox"/>	
<b>Class 09</b> The Greg Davis Classes III – A View into Greg's Toolbox – Methods & Advanced Optimization						<input type="checkbox"/>
<b>Class 10</b> AUTOSAR Beyond Automotive – Learning from the Past, Preparing the Future					<input type="checkbox"/>	
<b>Class 11</b> With Open Source to an IoT Sensor						<input type="checkbox"/>
<b>Class 12</b> The Secure Software Development Lifecycle					<input type="checkbox"/>	
<b>Class 13</b> Introduction to Embedded Linux – A Short Crash Course					<input type="checkbox"/>	
<b>Class 14</b> Embedded Android Workshop					<input type="checkbox"/>	
<b>Class 15</b> Ultra Low Power Workshop					<input type="checkbox"/>	

Class Fees	Early Rate until Jan. 27, 2016	Late Rate from Jan. 28, 2016
Half Day Class	EUR 340,-	EUR 380,-
Full Day Class	EUR 510,-	EUR 580,-

All fees plus 19% VAT

Terms and Conditions:

1. The attendance fee includes participation on the booked conference days, proceedings, refreshments and free admission to the embedded world 2016 Exhibition. If morning and afternoon blocks/classes are booked, lunch is also included for that day.
2. You will receive a confirmation of your conference registration along with your invoice.
3. Cancellations received in writing before or on February 3, 2016 will be subject to a service charge of EUR 50 for one-day registrations and EUR 100 for several-days registrations. For all cancellations received after February 3, 2016 the full conference fee remains payable. Substitutions within the same company are welcome at any time.
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## SESSIONS

### embedded world Conference 2016

	Tuesday, Feb. 23, 2016		Wednesday, Feb. 24, 2016		Thursday, Feb. 25, 2016	
	Block 1 am	Block 2 pm	Block 3 am	Block 4 pm	Block 5 am	Block 6 pm
Session 01	Securing IoT Devices I: Hardware Focus	<input type="checkbox"/>				
Session 02	Securing IoT Devices II: Automotive Focus		<input type="checkbox"/>			
Session 03	Connecting Embedded Devices	<input type="checkbox"/>	<input type="checkbox"/>			
Session 04	Systems Engineering I – Requirements Engineering, Standards & Tools	<input type="checkbox"/>				
Session 05	Systems Engineering II – Architecture & Real-Time Aspects		<input type="checkbox"/>			
Session 06	Cortex	<input type="checkbox"/>				
Session 07	Multicore		<input type="checkbox"/>			
Session 08	Embedded OS I – Make Your Choice	<input type="checkbox"/>				
Session 09	Embedded OS II – Android		<input type="checkbox"/>			
Session 10	Management Focus I: Agile Methods	<input type="checkbox"/>				
Session 11	Management Focus II: New Business Opportunities		<input type="checkbox"/>			
Session 12	Ultra Low Power	<input type="checkbox"/>				
Session 13	Securing IoT Devices III: Communication Focus			<input type="checkbox"/>		
Session 14	Securing IoT Devices IV: Industrial Focus				<input type="checkbox"/>	
Session 15	Wireless Technologies			<input type="checkbox"/>	<input type="checkbox"/>	
Session 16	Software Engineering I – Software Quality			<input type="checkbox"/>		
Session 17	Software Engineering II – Analysis, Testing & Design				<input type="checkbox"/>	
Session 18	Designing with SoCs and FPGAs			<input type="checkbox"/>	<input type="checkbox"/>	
Session 19	Internet of Things I – IoT Overview			<input type="checkbox"/>		
Session 20	Internet of Things II – IoT Architectures, Gateways & Testing				<input type="checkbox"/>	
Session 21	Embedded Linux			<input type="checkbox"/>	<input type="checkbox"/>	
Session 22	Functional Safety				<input type="checkbox"/>	
Session 23	Securing IoT Devices V: Parry Attacks					<input type="checkbox"/>
Session 24	Securing IoT Devices VI: Platforms & Layers					<input type="checkbox"/>
Session 25	Bus Systems & Network Technologies				<input type="checkbox"/>	<input type="checkbox"/>
Session 26	Internet of Things III – IoT Solutions				<input type="checkbox"/>	

Conference Fees	Early Rate until Jan. 27, 2016	Late Rate from Jan. 28, 2016
1 Conference Block	EUR 275,-	EUR 315,-
2 Conference Blocks	EUR 385,-	EUR 440,-
3 Conference Blocks	EUR 495,-	EUR 565,-
4 Conference Blocks	EUR 585,-	EUR 665,-
5 Conference Blocks	EUR 660,-	EUR 755,-
Full Conference (Classes excluded)	EUR 715,-	EUR 815,-

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