

Automotive

INVITO

20 APRILE 2023



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SEMINARIO AUTOMOTIVE: LA TECNOLOGIA RISPONDE ALLE ESIGENZE DI OGGI

Per rispondere alle esigenze del mercato automotive dettate dalle novità e innovazioni tecnologiche, Rohde & Schwarz Italia ha il piacere di invitarvi al Seminario Automotive, il:

**20 Aprile 2023,
dalle 9.00 alle 17.00,
Museo Alfa Romeo, Arese (MI)**

Nello specifico verranno trattati i seguenti argomenti :

- ▶ Advances in C-V2X and Automotive Communications
- ▶ New developments in CISPR automotive EMI standards for electric vehicles
- ▶ Automotive radar object simulation
- ▶ How high precision GNSS enables automotive applications

A conclusione del seminario ci sarà la visita guidata al Museo dell'Alfa Romeo, offerto da Rohde & Schwarz Italia.

Per ulteriori informazioni riguardo l'evento e la registrazione, [clicca qui](#).

I posti disponibili sono limitati e la registrazione è obbligatoria quindi ti suggeriamo di iscriverti il prima possibile. La conferma di partecipazione all'evento avverrà via mail la settimana prima dell'evento stesso.

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)

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AGENDA

Orario	Programma
9.00 – 9.30	Registrazione
9.30 – 9.45	Introduzione (in inglese) David Gonzalo, Sales Director Automotive, Rohde & Schwarz
9.45 – 10.30	Advances in C-V2X and Automotive Communications (in inglese) Holger Rosier, Technology Manager, Rohde & Schwarz
10.30 – 11.00	Coffee Break
11.00 – 12.15	New developments in CISPR automotive EMI standards for electric vehicles (in inglese) Jens Medler, EMC Product Manager, Rohde & Schwarz
12.15 – 13.00	Automotive radar object simulation (in inglese) Andreas Ibl, Product Manager Microwave Imaging Sensor, Rohde & Schwarz
13.00 – 14.00	Pranzo
14.00 – 14.30	Il test in produzione delle nuove tecnologie automotive Paolo Bertoldo, Key Account Manager, S.E.I.C.A. S.p.A.
14.30 – 15.15	How high precision GNSS enables automotive applications (in italiano) Giordano Mariani, Application Engineer, Rohde & Schwarz Italia
15.15 – 15.30	Q&A
15.30 – 17.00	Visita guidata al museo

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)

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ABSTRACT

Argomenti

Advances in C-V2X and Automotive Communications

Relatore: Holger Rosier, Technology Manager presso Rohde & Schwarz

Cellular-V2X promises to make driving safer, more efficient and it is critical for the implementation of Advanced Driver Assistance Systems (ADAS). However, it also brings new challenges to maintain reliable connectivity between vehicles, infrastructure, pedestrians and other road users and ensure the correct operation of ADAS features. In this presentation, you can learn about the latest developments in LTE and 5G C-V2X standards in accordance with organizations such as 3GPP, ETSI & C-SAE and obtain an overview of the very dynamic regional and global market. In addition, get insights into C-V2X network architecture as well as messaging, RF, protocol and TCU application testing.

New developments in CISPR automotive EMI standards for electric vehicles

Relatore: Jens Medler, EMC Product Manager presso Rohde & Schwarz

With the recent changes in CISPR 12, CISPR 25 and CISPR 36 new requirements were implemented to address the impact of electric and electric hybrid vehicles on the electromagnetic environment. At the same time, there is a high demand to reduce test time and to comprehensively record the disturbance characteristics of the device under test. Usage of FFT-based measuring receivers is the key to address these topics. The presentation will describe the applicability of FFT-based receivers for emission measurements, explain what is new in the current standards and what to expect in the next revisions of the standards then will conclude with practical use cases.

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Alfa Romeo

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)

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Automotive radar object simulation

Relatore: Andreas Ibl, Product Manager Microwave Imaging Sensor presso Rohde & Schwarz

Testing automotive radar sensors function and performance is a continual process during development and certification. Historically, accurately quantifying parameters such as angular and range resolution and accuracy, required considerable investment in test resources, involving bulky, expensive and inflexible systems. Now, a new approach is available to radar sensor developers which offers low barrier to ownership, can be customized exactly to current needs and is fully expandable to future requirements. Join this presentation to find out how the capabilities of the game-changing fully-electronic R&S radar test system can be utilised in a physically-compact benchtop form defining a new level of cost efficiency whilst expandable to encompass any future radar object simulation scenario.

Il test in produzione delle nuove tecnologie automotive

Relatore: Paolo Bertoldo, Key Account Manager presso S.E.I.C.A. S.p.A.

L'automobile moderna evolve molto rapidamente e serve stare al passo con le tecnologie emergenti e i trend di mercato. Dal veicolo elettrico a quello completamente connesso, le sfide sono molteplici e servono soluzioni in grado di rispondere in modo altrettanto rapido ai bisogni dei moderni processi produttivi.

How high precision GNSS enables automotive applications

Relatore: Giordano Mariani, Application Engineer presso Rohde & Schwarz Italia

The typical positional accuracy provided by standalone GNSS is 3-10 meters, which is suitable for automotive applications such as navigation and emergency call. With the emergence of high-precision GNSS, able to mitigate the influence of errors, sub-decimeter positional accuracy is possible and it becomes usable for more advanced applications such as C-V2X and autonomous driving. However, there are many important aspects that should be considered when developing high precision GNSS receivers and using the service for safety-critical applications. In this presentation, you can learn about the basic principles of high precision GNSS, how GNSS networks and error correction works and how to test it.

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Alfa Romeo

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)

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INVITO

20 APRILE 2023

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Relatori

Biografia



Holger Rosier,
Technology
Manager, 5G
Automotive
Rohde & Schwarz

Holger Rosier is a Technology Manager with Rohde & Schwarz within the Automotive Market Segment. His focus is on wireless communications technologies for vertical industries, in particular for connected cars.

Prior to joining Rohde & Schwarz, Holger was a Senior Technology Lead for IoT with Huawei Technologies in Germany. In this position, he led joint 5G V2X research industry projects.

Holger holds a University degree in Electrical Engineering & Information Technology from the RWTH Aachen University. He combined post-graduate studies on 3GPP technologies and ultra-wideband (UWB) communication with consultancy for Cooperative Intelligent Transportation Systems (C-ITS).



Jens Medler,
Product Manager,
EMI Test
Equipment,
Rohde & Schwarz

Jens Medler joined Rohde & Schwarz, Munich, Germany, a company specialising in test equipment and radio equipment in 1996. He is responsible for the standardization and application support of EMI test receivers and accessories for both hardware and software and is active member of various CISPR Subcommittees since 1999.

This includes CIS/A on EMC measurement instrumentation and methods, CIS/D on equipment on vehicles and internal combustion engine powered devices and CIS/I on information technology equipment, multimedia equipment and receivers. Since October 2017 he is acting as Convenor of CIS/A WG2; the CISPR Working Group on EMC measurement methods, statistical techniques and uncertainty. He is recipient of the IEC 1906 Award.

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)

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Andreas Ibl,
Product Manager,
Microwave
Imaging sensor
Rohde & Schwarz

Andreas Ibl is a product manager for Microwave Imaging sensor products at Rohde & Schwarz, having previously worked as a product manager responsible for oscilloscopes, specializing in power integrity and multidomain analysis.

Andreas has a master's degree in engineering management from the University of Applied Sciences in Landshut and has international experience working in the USA and China.



Paolo Bertoldo,
Key Account
Manager,
S.E.I.C.A. S.p.A

Laureato in ingegneria elettronica presso il Politecnico di Torino, segue alcuni dei principali clienti direzionali in ambito automotive.

Ha una pluriennale esperienza nel settore del testing e ha maturato l'esperienza nelle tecnologie del veicolo avendo lavorato presso una primaria società del settore.



Giordano Mariani,
Application
Engineer,
Rohde & Schwarz
Italia

Giordano Mariani è un Application Engineer presso Rohde & Schwarz Italia, con un background in RF testing, design e simulazione. Si occupa di applicazioni per il mercato Aerospace e Difesa, come ad esempio Satellite testing, GNSS e caratterizzazione di componenti RF.

Giordano ha una laurea magistrale in Ingegneria Elettrica conseguita all'Università romana La Sapienza.

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- ▶ [Agenda](#)
- ▶ [Abstract](#)
- ▶ [Relatori](#)
- ▶ [Iscrizione](#)