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Editorial Preview

AUTOMOBIL-ELEKTRONIK in March:

- Bus systems
- Cyber security
- Automated driving and ADAS
- Artificial Intelligence
- Software development tools

Hüthig Electronics Media Group

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Cover interview

Focus on OEMs

AUTOMOBIL-ELEKTRONIK talks to the Director of Electronics/Electrical Engineering at a leading OEM about significant changes in the design of vehicles in the near future and beyond.

Bus systems

Functional development beyond on-board electrical systems
A lot of unpredictable input signals find their way into the normally self-contained vehicle system via V2X. The second part of this article looks at how V2X communication can be standardized, which architecture is most suitable and the various factors that have to be taken into account.

The nerve fibers of self-driving cars: on-board electrical systems

Future automobile applications and the move towards service-oriented architectures are generating increasingly rigorous demands of on-board electrical system components in terms of modularity, scalability and bandwidth. What are the practical consequences here?

Cyber security

Blockchain in the automobile

Blockchain technology can be used in cars by combining an automotive microcontroller with a matching technology stack.



Cyber security in vehicle development

In order to reduce the effort required to implement internal security, the various activities have to be intelligently interlinked with one another. This article describes the main activities for the European market along with the relevant background and schedule.

The cradle of security

A cryptographic library is a core component of IT security applications in vehicles. It provides cryptographic algorithms, formats and encryption protocols which to some extent make integrity, message authentication and authenticity possible in the first place, both in terms of in-vehicle communication and beyond. This article explains the details of crypto libraries and provides a look ahead to the future.

Automated driving and ADAS

Self-driving cars on the way to making the “right” decision

Huge quantities of Big Data are currently being processed in order to enable self-driving cars to go into operation on German roads in the future. How does this impact on network, network infrastructure and the area of storage? Technology is not the only issue here: there are numerous challenges to be addressed in the political domain, too.

End-to-end radar solution

A new radar development platform has been especially developed to meet the rigorous demands of the sector in terms of function, performance and security, as well as accelerate development and



the use of radar in volume-production vehicles. It also contains an extensive range of tools that enable development costs to be reduced.

Black box (EDR) for self-driving vehicles

How to implement an Event Data Recorder – i.e. a black box – for automated vehicles – on a legally watertight basis.

Artificial Intelligence

Data platform for AI in cars

In order to put automated driving into practice, selectively developed systems are required that allow novel cutting-edge technologies to be deployed reliably and securely in the automotive sector. A scientific data platform enables artificially intelligent engines to be created for the various automotive fields such as automated driving.

Software development tools

Market overview

The editorial team explores the market for software development tools in the area of automobile electronics and provides a clearly structured list of its findings.

EDITORIAL PREVIEW



Advertising formats

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