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Editorial Preview

AUTOMOBIL-ELEKTRONIK in April:

- Tools and testing
- Sensor elements and sensor systems
- Optoelectronics
- Power electronics

Hüthig Electronics Media Group

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Cover interview

Tools in focus

AUTOMOBIL-ELEKTRONIK talked to the manager of a major tool manufacturer about the challenges facing the sector and how automated driving can be securely implemented based on a systematic approach.

Tools and testing

Fewer risks with automotive software

Automotive software generally includes a complex combination of systems that are not all necessarily subjected to sufficient testing. The ad hoc implementation of software components without sufficient testing can ultimately be extremely expensive – especially in safety-critical applications. Here, development standards can help to minimize risks.

Optimizing radar sensors

The quality and reliability of radar data is impaired by radomes with fluctuating material properties in the HF signal path. Since it is too complex, expensive and time-consuming to test and adapt radome properties on the vehicle assembly line, it is up to manufacturers to test and validate the HF performance of their radomes prior to vehicle integration. The article presents a



concept that is geared specifically to testing automotive radomes.

Sensor elements and sensor systems

Functional safety of image sensors

The implementation and testing of safety measures can have a significant impact on the whole-system design, including costs, reliability and complexity. This article looks at functional safety in image processing subsystems and how this affects system design.

Lidar sensors made to measure

Unlike other lidar systems, micro-motion technology does not function with mirrors. This makes for a compact size and a low level of energy consumption, but how does the technology work and how can it be put to efficient use?

Detection radar for high resolution: the current market situation

Given the current activity in the area of autonomous driving, now is the perfect time to take a comprehensive look at radar manufacturers, module suppliers and the latest technologies. In this article, AUTOMOBILELEKTRONIK also provides insights into the technology data for high frequency chipsets and antenna circuit boards in radar systems – including an analysis of the main HF chipsets and chipcards and a description of the components. In addition, the article compares the costs involved in the main systems so as to explain OEM selection and supplier preferences.



Optoelectronics

Intelligent headlamps

In matrix LED headlamps, several LEDs are responsible for illuminating a particular spatial angle of the road; the LEDs can be individually controlled and dimmed. This projection system not only allows “tunnels” to be created for glare-free high beam illumination. In future, headlamp systems will be used in which light distribution is provided by large numbers of individually controllable light spots (high-resolution headlamps). It will even be possible to provide a “self-healing” function for individual LEDs.

3D screen effects

AUTOMOBIL-ELEKTRONIK explains how far 3D technology has progressed and the benefits this might offer in the area of automotive screens.

Power electronics

Network resistors as high voltage dividers

Further advancements in power electronics also mean that high-performance measurement systems are needed that can operate in high-voltage environments. However, the high voltage levels have to be reduced for measuring purposes, and resistor voltage dividers are used for this purpose. Resistors based on thin-film technology offer genuine benefits here.

EDITORIAL PREVIEW



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