How Six Companies Are Using AI to Accelerate Automotive Technology

The automotive sector has adopted a great number of AI innovations that are not only utilized for vehicle path planning and obstacle avoidance, but incorporated in every step of development from gathering parts for manufacturing, to testing software, to modeling how these systems will function on the road.

For example, BMW Group is one company making use of AI in their factories with tools like the NVIDIA Isaac Robotics 2020.1 platform.

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AUTOMOTIVE INDUSTRY NEWS

Yole Analysts Estimate The Global Market for Radars, Cameras, LiDARs, and Computing ADAS
At Yole, analysts estimate, the global market for radars, cameras, LiDARs and computing ADAS should reach US$8.7 billion in 2020.

AUTOMOTIVE PROCESSING NEWS

**eMCOS POSIX Commercial OS Supports Kalray’s Coolidge Processor for Mixed-Criticality Systems**

The eMCOS POSIX real-time operating system (RTOS) from eSOL, now supports the Coolidge third generation Massively Parallel Processor Array (MPPA) intelligent processor developed by Kalray.

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AUTOMOTIVE SECURITY NEWS

**Rambus CryptoManager Root of Trust Cores Certified ASIL-B/D Ready for Security in Automotive Applications**

These automotive-grade secure co-processor IP safeguards SoCs in V2X communications, ADAS, ECU platform management, infotainment, and other critical vehicle systems.

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AUTOMOTIVE PROCESSING NEWS

**Ambarella’s AI Vision Processor Meets Automotive Safety Goals with Mentor’s Tessent Safety Ecosystem**

Mentor announced that its Tessent software Safety ecosystem helped artificial intelligence (AI) vision silicon company Ambarella Inc. meet in-system test requirements and achieve ISO26262 automotive safety integrity level (ASIL) goals for its CV22FS and CV2FS automotive camera system-on-chips (SoCs).

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AUTOMOTIVE POWER ELECTRONICS NEWS

**Electric Power Steering System Supplier JTEKT Selects SPARK Pro for Safety-Critical Automotive Software**

AdaCore announced that JTEKT has adopted AdaCore’s SPARK Pro tool suite and the GNAT Pro Common Code Generator (CCG) to aid in the development of safety-critical power steering system software.

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AUTOMOTIVE LIGHTING NEWS

**Inova Semiconductors Provides Standalone ISELED LED Driver & Controller in Volume Production**

Inova Semiconductors offers the driver chip as a standalone solution. The standalone ISELED driver is now available in volume production and is AEC-Q100 qualified.

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AUTOMOTIVE DEVELOPMENT TOOLS NEWS

**High Vehicle Performance with Vector's PREEvision 9.5**

PREEvision 9.5 helps to develop future-proof E/E systems based on high-
performance computers (HPCs) and the AUTOSAR Adaptive platform. With PREEvision developers can integrate HPCs and AUTOSAR Adaptive into existing architectures.

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