Embedded COMPUTING DESIGN
November E-Letter © 2017
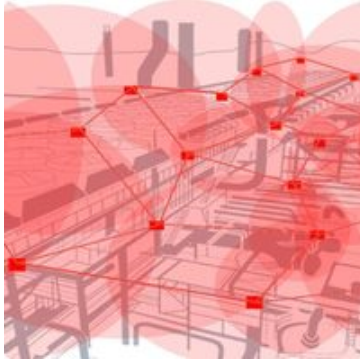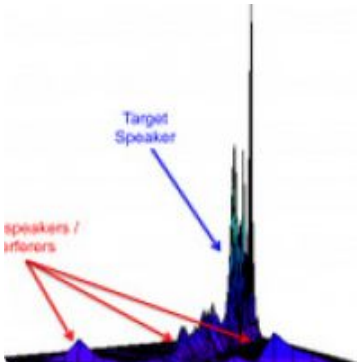
Enabling machine learning in industrial systems

Tobias Puetz, Texas Instruments

Factory managers are always looking for new ways to improve assembly-line quality, reliability, and efficiency to achieve higher profits and growth. A common way to lower downtimes is to monitor the status of the ge...

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Voice rec is terrifying

Brandon Lewis

In a world obsessed with Internet privacy it?s surprising how little we talk about always-listening devices like the Amazon Echo. After all, a company that wants to learn intimate details about your life in or...
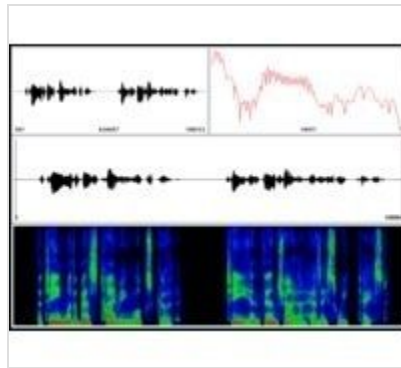
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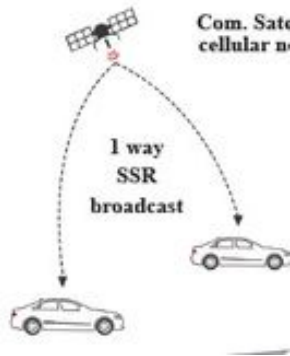
DESIGN ARTICLES

Connectivity puts precision into automotive positioning

Brandon Lewis

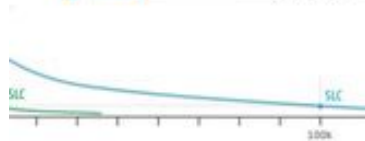Continued from: "The push to process vehicle sensor data." Although solutions like the CDNN toolkit allow neural networks to run locally on embedded processors, cloud connectivity is required for the most...

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Bit-by-bit towards an industrial storage solution

Ulrich Brandt, Swissbit

Triple-level cell (TLC), multi-level cell (MLC), single-level cell (SLC), pseudo single-level cell (pSLC) ? there are many flash memory technologies. Developers need to understand the basic mechanisms of stora...

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DESIGN ARTICLES

The push to process vehicle sensor data

Brandon Lewis

Continued from: "Advanced image sensors take automotive vision beyond 20/20." And there are many others now in the race to process all of that vehicle sensor data. Among them, Toshiba has been evolving it...

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Control your Christmas lights with an Arduino relay board and a mobile phone

Wilfred Nilsen, Real Time Logic

The Christmas Light Controller is a fun project that lets you provide public access to your outdoor lights during the holiday season ? perfect for homeowners and parties, where visitors can select a number of ...

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Advantages of purpose-built hardware for IoT applications

Kevin Eichhorst, Digi Wireless Design Services

Design engineers have many choices when it comes to the design of Internet of Things (IoT) solutions. Hardware is evolving to keep pace with the ever-expanding requirements and potential of IoT applications. As with...

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LTE is key to the future of M2M communication

Stefano Moioli, u-blox

As the Internet of Things (IoT) grows and matures, numerous wireless protocols are jockeying for position in the arena of M2M communication. The most qualified one today is one you may not have expected ? LTE....

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Advanced image sensors take automotive vision beyond 20/20

Brandon Lewis

ON Semiconductor?s acquisition of Fairchild Semiconductor gave the company a broad portfolio of discrete power solutions for the automotive market. But it was the acquisition of Aptina Imaging Corporation in 2...

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Implementing a mesh network? Here?s why you should use Bluetooth

Franz Dugand, CEVA

Until now, many solutions have been introduced for wireless mesh networks using various technologies. The initial goal was to create a reliable network for tactical military use cases. After that, the technology was...

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EEPROM reliability meets SRAM performance

Microchip Technology Inc.

EERAM is a non-volatile SRAM with a shadow EEPROM backup. Data is backed up to the EEPROM automatically on power down in the presence of a small external capacitor. These devices combines the reliability of an EEPROM with the performance of an SRAM. Microchip?s EERAM products offer unlimited, instant writes to memory and reliable data storage at power loss. This low-cost NVSRAM is available in tiny 8-pin packages and does not need a battery. Low-cost?

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E-cast

Designing for the Future: Evolution of Smart Building Automation Systems

When: December 12, 2:00 p.m. ET

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