Wednesday, October 26, 2016

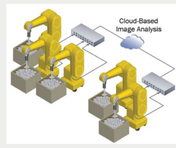
INDUSTRIAL PHOTONICS VISION

A quarterly newsletter featuring the latest advancements in and applications for industrial vision systems - from sensors to software.

Industrial Vision News

Software Reinvents Machine Vision

Advancements in cloud-based service, open source tools and sophisticated yet easier-to-use imaging systems can have significant impact on machine vision inspection system design, particularly in providing greater flexibility in the selection of sensors and optics.



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Machine Vision Helps Adhesive Trend Stick in Auto Industry

Business has been getting stickier for Ron Weber, president of USS Vision, a Livonia, Mich., machine vision integration and automated inspection system firm. As automakers race to meet federal regulations that call for higher fuel-efficiency standards — 54.5 miles per gallon by 2025 — his firm is seeing more vehicles with body parts joined with adhesives. In recent years, that trend has translated into 11 percent annual increases in the adhesive bead inspection business offered by USS Vision, whose customers include GM, Ford Motor, Chrysler and Toyota.

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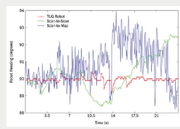
Robots With Laser and Vision Systems Conquer New Industrial Terrain

Classic automated guided vehicle systems are used in many industrial applications characterized by physical path guidance in the form of embedded magnets or wires, painted lines or magnetic tape, or other electrical or mechanical path-defining means.



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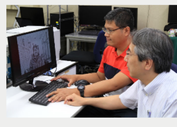
Imaging Technique Enhances Face Recognition in Variable Lighting Conditions

A novel technique manages the effect of lighting on photometric-based human face recognition through a fuzzy-based illumination invariant method. The technique, named OptiFuzz, uses an extended reflectance model to adjust the effect of lighting on human faces, thereby improving face detection and recognition results under a variety of illumination conditions.



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Flir to Acquire Point Grey

Flir Systems Inc., a designer and manufacturer of sensor systems, has reached an agreement to acquire the business of Point Grey Research Inc., a developer of machine vision cameras, for approximately $253 million in cash.

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Adimec to Relocate US Biz Office

Camera developer Adimec Advanced Image Systems BV will be relocating its U.S. sales and support office to a new facility in Woburn, Mass., within a few miles of its existing location.

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Featured Products

Canon 3D Machine Vision for Random Parts Picking

Canon U.S.A. Inc., Industrial Products Div.

The RV-Series is designed to work with Robotic arm systems as an Eye to Capture image of target parts and let robotic system know how to approach and pick up by most reliable position to safely carry and place at commanded position.

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4D inSpec Surface Gauge

4D Technology Corporation

The new 4D InSpec™ Surface Gauge is the first handheld, precision instrument for measuring machined surface defects and features directly on components.

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High Power 3D Laser Line

Osela Inc.

Osela's Fireline laser is a Thermo Electrically cooled High powered direct semiconductor pattern generator with superior beam shaping for high signal to noise industrial applications. Ideal for Road and Rail inspection and other high power density illumination applications.

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PIXCI® EB1mini Camera Link Frame Grabber

EPIX Inc.

The smallest camera link frame grabber installs in a mini card slot and uses a flexible cable to connect the SDR or MDR connector to the panel of an embedded computer. Multiple EB1minis can be used in embedded computers.

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High Resolution Imaging Colorimeter

Radiant Vision Systems, Test & Measurement

The ProMetric® I29 is an ultra high-resolution imaging colorimeter developed for testing displays, consumer electronics, and other devices in high-volume production environments.

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SMARTEK Vision "twentynine"

FRAMOS

SMARTEK Vision officially introduce their new CMOS camera family "twentynine" for machine vision applications.

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Webinars

Laser Additive Manufacturing

Thu, Jan 12, 2017 1:00 PM - 2:00 PM EST

Join us for a free webinar! Wayne Penn, applied physics consultant and former president of Alabama Laser Systems, will provide an introduction to laser additive manufacturing (LAM) and open source 3D printing. Penn will discuss ways in which 3D printing is being used in additive manufacturing (AM); the challenges of AM, including quality control; and the role of laser welding and cladding technology in AM. He will present examples of industrial applications showing the use of laser welding, cladding and rapid manufacturing techniques in AM, and conclude with a look at future initiatives in the area of LAM. Penn has over 40 years of experience with lasers. For more than two decades he worked in laser business development and applications R&D for NASA. He was president of Alabama Laser Systems from 1997 to 2016. His current focus is on the R&D of metal deposition and bonding with an emphasis on additive manufacturing.

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