Thursday, June 27, 2019

This Week In PHOTONICS

PHOTONICS MEDIA

Top Stories

**Machine Learning-Based System Automates Street Sign Detection and Classification**

Geospatial scientists at RMIT University have used deep learning to produce an autonomous system for detecting traffic signs on Google Street View images. The system could allow local governments and traffic managers to monitor street signs and identify those in need of replacement or repair.
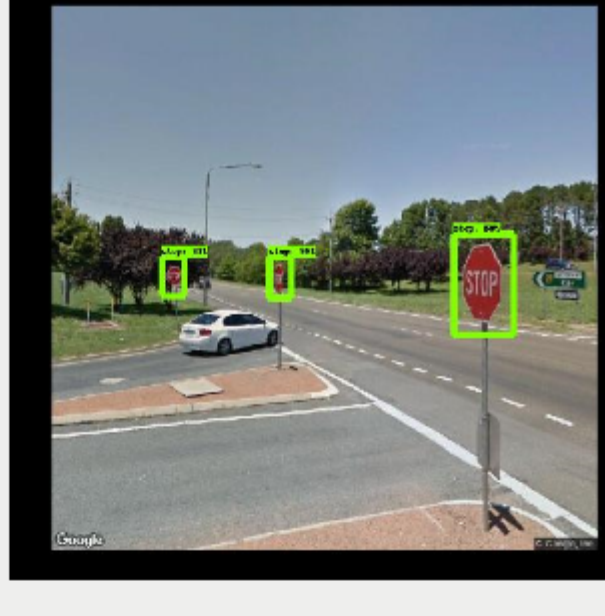
Read Article

Squeezed Light Reduces Noise, Could Speed Quantum Sensing

Oak Ridge National Laboratory physicists studying quantum sensing, which could affect a range of potential applications from airport security scanning to gravitational wave measurements, said that certain quantum sensors can use a squeezed state of light to reduce statistical noise that occurs in ordinary light.
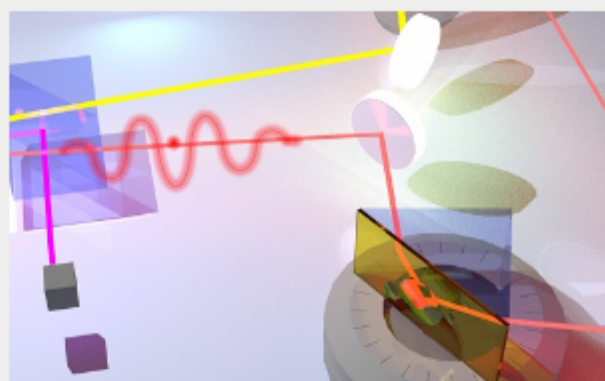
Read Article

'Self-Healing' Coating Minimizes Lead Leakage from Perovskite Cells

Adding a protective layer of epoxy resin to the top of a perovskite solar cell (PSC) can significantly reduce the amount of lead that the cell discharges into the environment, researchers at Okinawa Institute of Science and Technology (OIST) discovered.
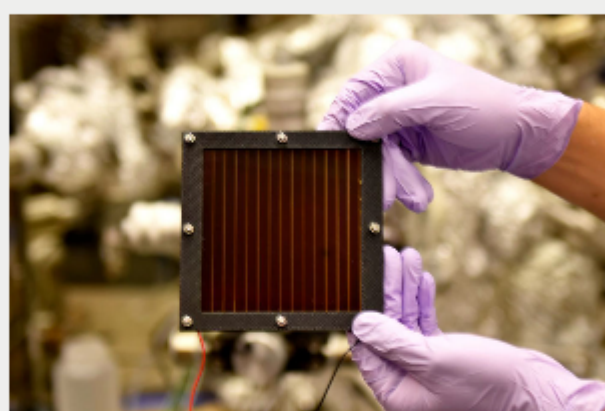
Read Article

Featured Products

Ultima 2plus Multiphoton Imaging

Bruker Nano Surfaces
With new advances in field of view, sensitivity, wavelength, and sample accommodation, Bruker's Ultima 2Plus delivers the best commercially available combination of flexibility, resolution, imaging depth, and speed, allowing users to perform simultaneous imaging, stimulation, and electrophysiology protocols with greater efficiency and effectiveness.

Visit Website   Request Info

Back Illuminated sCMOS by PCO

PCO-TECH Inc.
Unique technology comes from evolution, combining existing and new technology. When PCO's tried and trusted sCMOS cameras pool forces with modern back illuminated (bi) sensor technology, pco.edge 4.2 bi and pco.panda 4.2 bi come into the world of science. Both cameras stand out with their nearly perfect quantum...
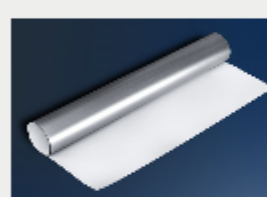
Visit Website   Request Info

GenICam-Compliant Camera Functions

IDS Imaging Development Systems GmbH
IDS NXT cameras allow users not only to create and load individual image processing tools, but also to make them available to any GenICam-compliant application, such as HALCON.

Visit Website   Request Info

Flexible Sputtered Coatings

Deposition Sciences Inc. (DSI)
Roll-to-roll processes present a number of challenges when coating flexible surfaces, including unbalanced stress on each side of the substrate and limited line speed. These limitations affect the thickness and possibility of complex coatings. To address these challenges, Deposition Sciences, Inc. (DSI) developed their batch coating technology, MicroDyn®.

Visit Website   Request Info

More News

Nonlinear Optical Process Could Improve Solar-Powered Desalination

Researchers at Rice University have improved the efficiency of their solar-powered desalination system by more than 50% by concentrating sunlight into "hot spots." Using the same amount of light, the researchers were able to increase the rate of purified water production by redistributing direct sunlight intensity.

Read Article

Tiny Light Box Made of TMDC Material Merges States of Light, Matter

A nanosize light box, built from stacked atomically thin material, has demonstrated the ability to capture and amplify light and link light to matter at the nanolevel. The light box, created by researchers at Chalmers University of Technology, makes the alternation between light and matter take place so rapidly that it becomes impossible to distinguish between the two states.

Read Article

More Headlines

Luminate NY Calling for 2020 Competition Applicants   Read Article

SPIE to Acquire Photonex, UK's Optics and Photonics Exhibition   Read Article

Elbit Systems Awarded $73M German Air Force Contract   Read Article

Precision Optical Recognized as Small Business Supplier   Read Article

Palomar Technologies Invests $1M in EPIC Partnership Agreement   Read Article

Industry Events

SEMICON West 2019

July 9-11, 2019 · Moscone Center · San Francisco United States
SEMICON West 2019 will offer more than 80 hours of technical and business programming, plus hundreds of exhibitors whose products and services can help you manage today's disruptive landscape. From materials, equipment, design, manufacturing, system integration, and demand channels to Flexible Hybrid Electronics and MEMS & Sensors, you will have the opportunity to learn about the best in the business and see what's next. Business and technology leaders, researchers, and industry analysts from across the microelectronics supply chain will benefit from attending SEMICON West.
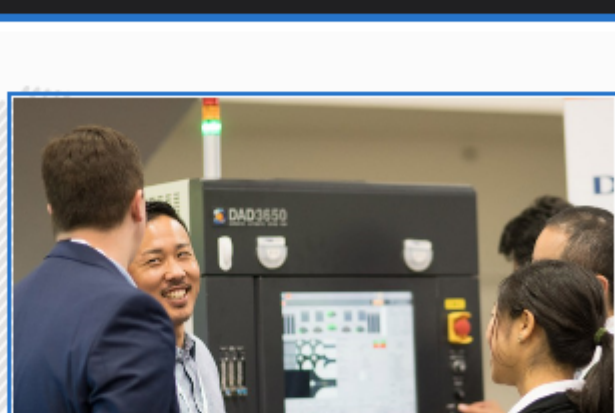
More Info

Webinars

Keys to Success with Vision-Guided Robotics

Tue, Jul 16, 2019 1:00 PM - 2:00 PM EDT
Industry leader David Dechow will present practical methods to successfully integrate conventional vision-guided robotics (VGR) applications into machine vision systems. He will discuss some cutting-edge VGR applications, the challenges they present, and the potential advantages they offer. He will provide examples of the products that are being used successfully in VGR, including robots, cameras, and software and will conclude with a discussion of machine vision technologies that could be key to expanding the future use of VGR. This webinar is sponsored by Photoneo; Teledyne DALSA; and Integro Technologies Corp.

Register Now

CALL FOR ARTICLES
Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (Photonics Spectra, BioPhotonics, Vision Spectra, and EuroPhotonics). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our online submission form.