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Inspections The manufacturing industry is being turned on its head as AI and deep

Anomaly Detection Expands Use of AI in Defect

Sector

learning transform the way goods are manufactured and inspected. The combination of software, new deep learning techniques, the power of parallel processing, and easy-to-use tools is at the core of this transformation. Read Article

There are many different ways to judge the performance of a lens, depending on the application: weight, size, distortion, transmission,

and resolution. Of these characteristics, resolution is often the primary

Calculating Lens Resolution with Precision

cost driver for lenses, with higher-resolution lenses tending to cost more than lower-resolution ones. Read Article

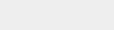


will need to prepare for the immense changes coming their way. Machine vision, used in combination with artificial intelligence and deep

Robot-Based Bin Picking Set to Transform Manufacturing

As the Fourth Industrial Revolution nears, companies all over the world

learning, strives to make manufacturing systems more productive than ever. This is resulting in a greater focus toward robot-based bin picking. High-level collision detection and path planning allow robots to move independently without any human intervention. High-quality structured light projection creates a detailed 3D map of points so that the system can accurately identify the location and orientation of the parts in the bin. Read Article



experts in the field examining the trends that enable Industry 4.0.





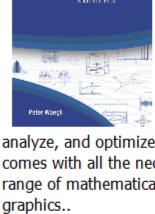
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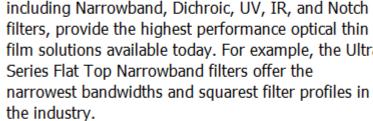
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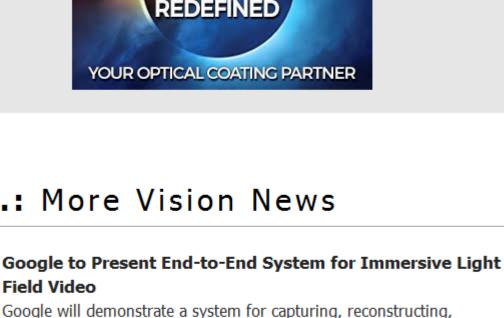
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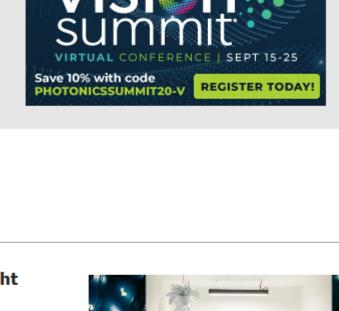
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isual AI to products







SIGGRAPH 2020 virtual conference. In the new system, wide field-ofview scenes can be recorded and played back with the ability to move around within the video after it has been captured.

Self-Driving Cars That Recognize Free Space Can Better Detect Objects Self-driving vehicles use 3D data from lidar to represent objects as a point cloud and then try to match those point clouds to a library of 3D representations of objects. The problem with that, according to Peiyn Hu, a Ph.D. student in CMU's Robotics Institute, is that the 3D data from the vehicle's lidar isn't exactly 3D — the sensor can't see the occluded parts of

compressing, and rendering high-quality immersive light field video, at

bandwidths low enough to be streamed over regular Wi-Fi, at the

an object, and current algorithms don't reason about such occlusions.

Read Article Pentagon Adopts FLIR EST Screening System to Stop Spread of COVID-19

screen visitors for elevated or higher than expected skin temperatures, which can help guard against the spread of COVID-19. Read Article

FLIR has announced that it has installed its EST screening system at the Pentagon Visitor Center. The company's integrated

EST screening system, the A700 EST-IS, features the FLIR A700 thermal imaging camera. The system is being used to

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Embedded vision is an emerging and growing technology with use cases developing across many fields, from medical imaging to autonomous vehicles. In this webinar, industry expert David Dechow will define embedded vision and the technologies involved, the basic implementation challenges and techniques, and the impact that embedded vision will have on familiar markets, including, in particular, machine vision in automation applications. The webinar will feature examples and case Register Now

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