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The Relightables System Captures Character Lighting for

Top Stories

Virtually Any Environment Computer scientists at Google have developed a system for high-

system, called The Relightables, can capture full-body reflectance of 3D human performances and seamlessly blend them into a new environment through augmented reality (AR) or into digital scenes in films and games. Character lighting can be customized in real time.

quality, relightable performance capture. The volumetric capture

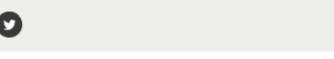
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and Efficiency









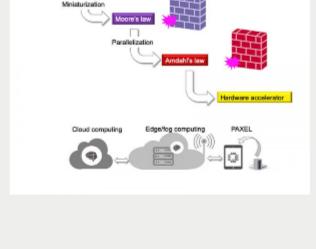
A new photonic integrated circuit device, developed by researchers in Japan, can be placed at the front end of a digital computer and optimized to perform specific functions with less power consumption

than is needed for fully electronic devices. This photonic accelerator,

Photonic Accelerator Could Increase Computation Speed

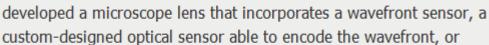
called PAXEL, is a special class of processor that can process images or time-serial data either in an analog or digital fashion on a real-time basis. Read Article

Researchers from King Abdullah University of Science and Technology have designed a microscope lens that is able to take both quantitative



Dennard scaling

phase images and bright-field images in a single measurement. Under the supervision of professor Wolfgang Heidrich, the researchers

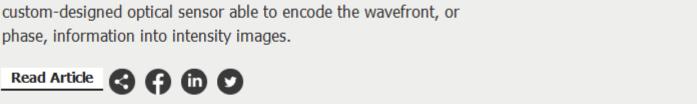


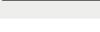


Imaging

Microscopy Innovation Allows for Simultaneous

Quantitative and Bright-Field Imaging



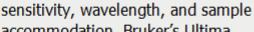








efficiency and effectivity.



Bruker Nano Surfaces

Ultima 2Pplus Multiphoton

accommodation, Bruker's Ultima 2Pplus 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

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μm² pixel size.

information per image is crucial for

pco.edge 26 sCMOS Camera

microscopy, quality control, high

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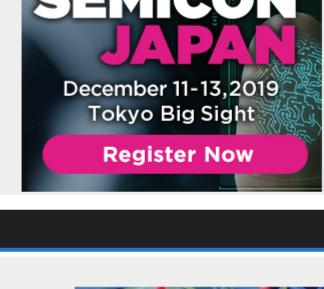
throughput screening, and other mesoscopic applications. This is where the new pco.edge 26 fits superb. The pco.edge 26 offers you a 5120 x 5120 pixel resolution with 2.5 x 2.5

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To observe quantum phenomena on a macroscopic scale, researchers at the Center for Macroscopic Quantum States (bigQ) and the Technical

Applications

generation of photonic cluster states could be suitable for universal measurement-based quantum computation.

3 A B D Read Article Collaborative Work Advances Quantum Sensors for Bio

A research team at Università degli Studi Roma Tre has shown that quantum light can be used to track enzyme reactions in real time. The researchers developed a setup that allowed them to control the light at

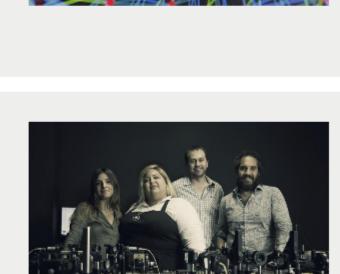
the level of a single photon. This made it possible to use low

illumination without disrupting the enzymes, with the potential to

University of Denmark (DTU) created an extremely entangled quantum

state, called a cluster state. The team's scalable scheme for the

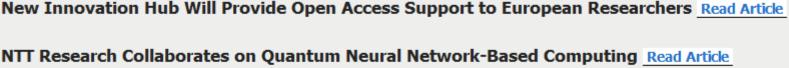
achieve improved sensitivity. Read Article 3 A B D **More Headlines**



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December 8-12, 2019 - RMIT Univ. - Melbourne, Australia

Conferences on Optics and Photonics)

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central theme of optics and photonics. The ANZCOP conferences will connect people across all scientific disciplines associated with optics and photonics, incorporating general streams on optical science and

The Australian and New Zealand Conferences on Optics and Photonics

(ANZCOP 2019) bring together four co-located conferences with a

technology and focused topical conferences on micromaterials and nanomaterials and devices, biomedical photonics, and astronomical instrumentation. The conferences are organized by the Australian Optical Society and SPIE, the international society for optics and

photonics. More Info **Webinars** Filters: The Key to Image Quality in Modern Vision Applications Wed, Dec 4, 2019 1:00 PM - 2:00 PM EST Optical filters are a simple, cost-effective way to enhance repeatability and to achieve the highest level of performance from your machine

vision system. Join technical trainer Georgy Das from Midwest Optical

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