Wednesday, April 12, 2017

PHOTONICS spectra (f) (in Y) (PHOTONICS) MEDIA









immersive simulators with realistic sights, sounds and motion. In augmented reality, projected data overlays what trainees see. Mixed reality combines the real and synthetic.





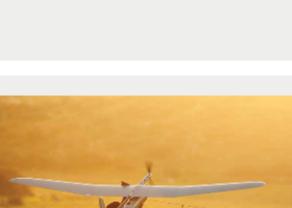




the eyes in the sky, playing an increasingly prominent role in spying, search and rescue operations, border security and combat operations.

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of the South China Sea. Unmanned aerial vehicles (UAVs), or drones, are acting as



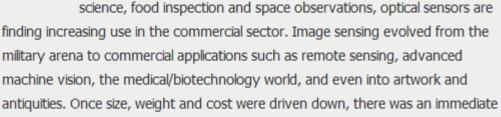
From smartphones, smart homes and autonomous vehicles to crop





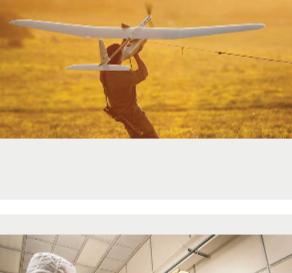


upturn in the market; and this growth has been exponential.



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Advances in liquid crystal and liquid crystal polymer materials have made it possible to modulate the orientation of the anisotropy axis at high spatial frequencies, ushering in the next generation of optics for space communications and intraocular lenses.

Silicon Nanoparticles Used for Photovoltaic Windows

New 4G Optics Technology Extends Limits to the Extremes

Windows that can efficiently collect solar energy are one step closer to becoming a reality thanks to high-tech silicon nanoparticles. Researchers have developed technology to embed the silicon nanoparticles into what they call efficient luminescent solar concentrators (LSCs). These LSCs are the key element of windows that can efficiently collect solar energy.

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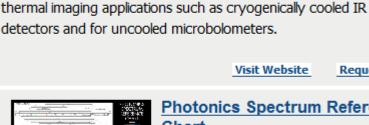
and windows with high transmission, high

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Introducing the CAOS Smart Camera - Empowering

electronic engineering at University College Cork, will discuss the development of the Coded Access Optical Sensor (CAOS) and how, working with CMOS sensors, it

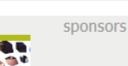
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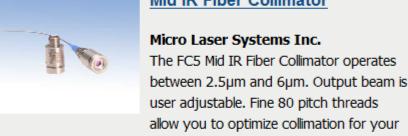
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Wave Venture LLC, a company focused on developing photonic business opportunities over a broad range of markets. Webinar attendees will receive a coupon for \$20 off the price of Krohn's 12-course series, Commercialization of

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For security and surveillance applications, achieving true image scene pixel information is vital. This has led to an increasing demand for a smart camera that can achieve true vision through highly directional and adaptive image pixel sifting for high-value targets. Nabeel A. Riza, Ph.D., chair professor of electrical and

Extreme Imaging

Wed, Apr 26, 2017 1:00 PM - 2:00 PM EDT

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can smartly extract scene contrast pixel light intensity information using timefrequency coding of selected pixels. He will discuss how CAOS addresses the challenge of reaching extreme all-linear, instantaneous dynamic ranges with multicolor smart capture of targets of interest within extreme contrast images, and will provide a demonstration of the CAOS-CMOS camera. Who should attend: engineers, scientists, researchers and technical professionals who may require or are interested in extreme contrast imaging. Register Now **Coming in May... Features** LEDs; Optical Materials; Displays and Holography; Medical/Diagnostic Sensors; Plasmonics **Issue Bonus** Fiber Optics Components & Systems Sourcebook

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Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. As Good as the Real Thing for Military Training "Fight like you train and train like you fight" is a military maxim. To better do that, the military is turning to virtual, augmented and mixed reality. In virtual reality, digital representations replace the real world, with a high-end example being

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in the future. A key task of this research is to record the current state of diversity, study processes within ecosystems and identify possible changes.

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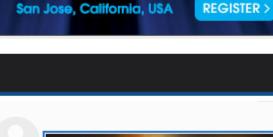
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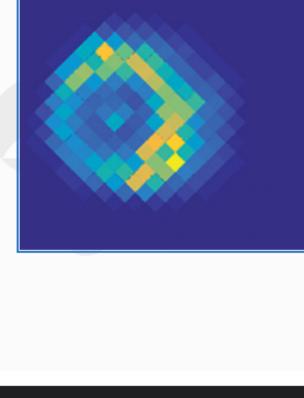
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