

# This Week In PHOTONICS

PHOTONICS MEDIA



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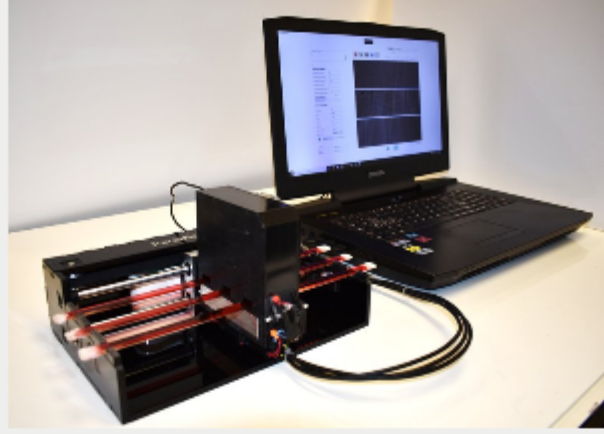
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## Top Stories

### Mobile Device Detects Parasitic Infections Quickly Using Holographic Analysis and Deep Learning

Researchers have developed an inexpensive, portable platform that can detect motile parasites in bodily fluids rapidly. Using the new platform, more than 3 milliliters (ml) of a bodily fluid sample can be imaged and analyzed within 20 minutes, providing a throughput that is orders of magnitude better than traditional optical microscopy-based examination.



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### New Computer Vision System Mimics How Humans Visualize Objects

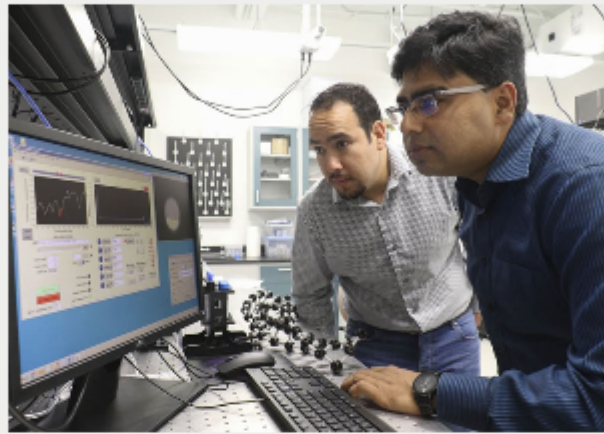
A computer vision system that can identify objects based on the same method of visual learning that humans use has been developed at the UCLA Samueli School of Engineering. The system could be an advance in computer vision and a step toward general artificial intelligence (AI) systems.



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### IR Image Encoding and Camouflage System Uses Plasmonics to Hide Images from Naked Eye

Using a plasmonic nanostructure, researchers have devised a way to hide information on the surface of a material, so that it is only visible through an IR lens or camera that is tuned to the correct IR band.



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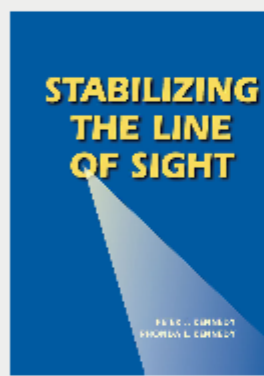
## Featured Products



### Back Illuminated sCMOS by PCO

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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 efficiency up to 95%.

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### Stabilizing the Line of Sight

**Photonics Media**  
In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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### Researchers Film the Ultrafast Conversion of Light into Electricity

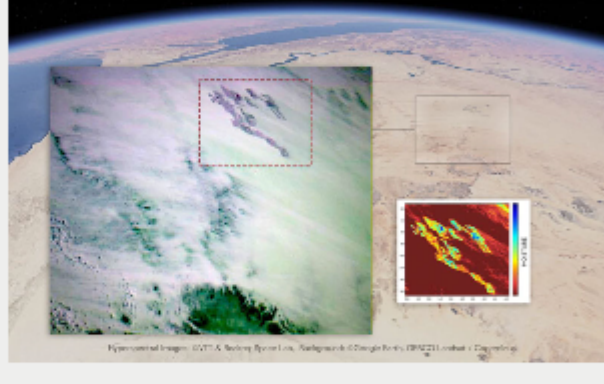
A team from Kiel University (CAU) filmed the conversion of light energy into a solid — an exchange that takes place in a matter of femtoseconds (fs) — using an ultrafast camera system developed by the researchers. The team was able to observe the energy exchange of the electrons with their environment in real time and distinguish individual phases.



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### Hyperspectral Imager Will Communicate Climate Changes from Space

The photos from a tiny IR hyperspectral camera, taken from a nanosatellite that has now reached space, could provide information useful for managing the effects of climate change. The first images were taken on Dec. 2, 2018, over the Sahara Desert.



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## Industry Events

### BIOS 2019

February 2-3, 2019 - The Moscone Center - San Francisco US  
BIOS is the world's largest international biomedical optics conference, encompassing clinical, translational, and fundamental research and development in the field of biomedical optics and photonics. It is part of SPIE Photonics West, the largest biophotonics, laser, optoelectronics, and industrial manufacturing event in North America, with more than 5,500 technical attendees from more than 50 countries. Special events will include hot topics presentations, the BIOS Expo, a focus on Translational and BRAIN research, and industry-leading working groups and panels.



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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *EuroPhotonics*). Please submit an informal 100-word abstract to [editorial@photonics.com](mailto:editorial@photonics.com), or use our [online submission form](#).

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