This Week In OTONI











Top Stories

Augmented Reality, Virtual Sensors Enhance Physical Security Training Experts on physical security at Sandia National Laboratory are applying

technology and methods of the video game industry to real-world national security problems. Using pre-release stand-alone augmented reality headsets, computer scientists have recently adapted augmented reality to enhance physical security training and analysis.



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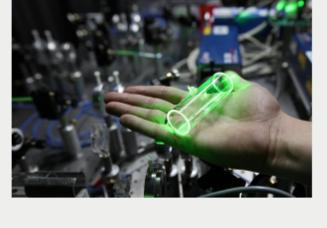




Holographic Atomic Memory Produces Photons On

Demand A device that is able to generate single photons on demand in groups of several

dozen or more could help scientists overcome one of the fundamental obstacles facing the construction of quantum computers. Physicists from the Faculty of Physics at the University of Warsaw (UW) have invented holographic atomic memory.



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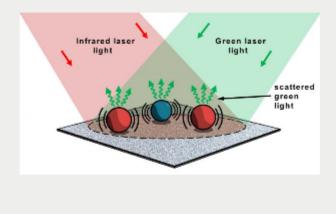




Chemicals in Minuscule Amounts

A microscope that can chemically identify µm-sized particles could one day be used in airports and other high-security venues to rapidly screen people for microscopic

amounts of potentially dangerous materials. The technique, which was developed by researchers at the Massachusetts Institute of Technology's Lincoln Laboratory, uses photothermal modulation of Mie scattering (PMMS) to enable concurrent spatial and spectral discrimination of individual µm-sized particles, and uses an imaging configuration to detect multiple species of particles.





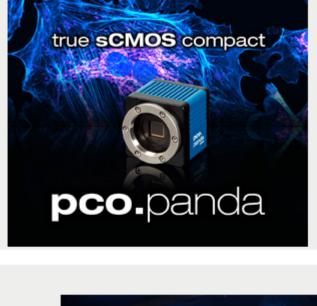








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achieved using the symmetrization method. The work has led to the discovery of information that could help system administrators protect quantum computing

networks from external attacks.

Universal optimal quantum cloning of high-dimensional photonic states has been





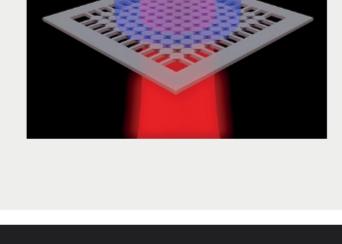




Novel BIC Laser Holds Promise for Optical Communications Researchers at the University of California San Diego have developed a laser based

power lasers for industrial and defense applications. The technology could also revolutionize the development of surface lasers for communications and computing applications.

on an unconventional wave physics phenomenon known as bound states in the continuum — BIC. The new BIC lasers have the potential to be developed as high-



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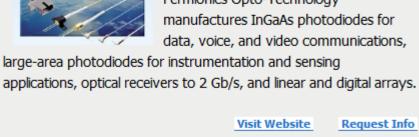
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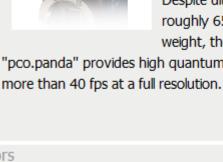
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