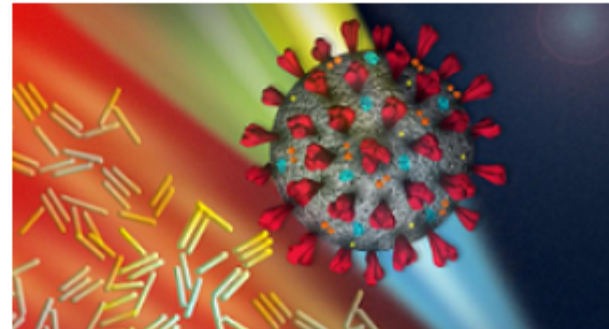


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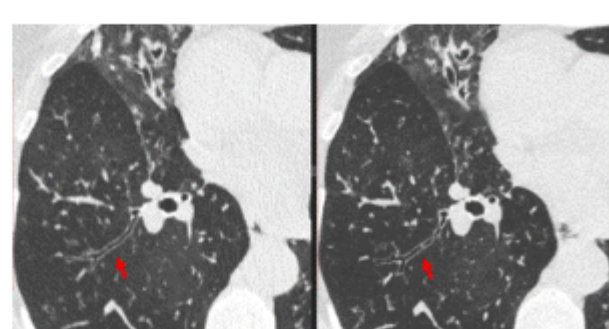
Researchers at Columbia Engineering and Rover Diagnostics used plasmonic nanoparticles with compact optics to develop a real-time, multiplexed, reverse-transcriptase quantitative polymerase chain reaction (RT-qPCR) test. Weighing just two pounds, the ultrafast, portable PCR testing system is practical for use in decentralized and point-of-care (POC) settings.



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Photon Detector Breathes New Life Into Conventional CT Imaging

The Food and Drug Administration has cleared a photon-counting detector (PCD)-based CT system for clinical use. The system offers an alternative approach to the conversion of x-rays to electrical signals. Studies also showed that the system achieved the best reported resolution for a clinical CT system.



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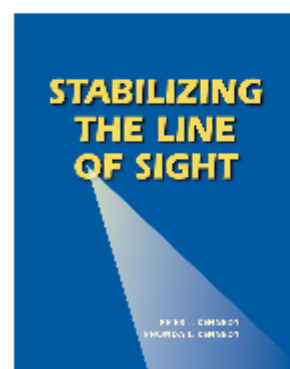
Finalists Announced for VISION Startup World

Organizers of VISION released the list of startups that will compete in the show's now-annual Startup World event. Startups focused on image processing and computer vision will present their innovations. Technologies range from the latest camera technologies, to software from artificial intelligence, and deep learning to image processing systems.



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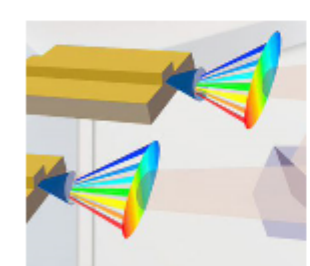
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Tue, Aug 23, 2022 10:00 AM - 11:00 AM EDT

QCL dual-comb spectroscopy began with high time-resolved (250 μ s-250ms) single shot measurements and has progressed to time-scales that can compete with rapid scan Fourier-transform infrared spectroscopy. Recent research has discovered a high-spectral resolution feature on

instruments that allows measurements with less than one MHz resolution over a bandwidth of 50cm⁻¹. This breakthrough was achieved by combining the high-time resolved mode with the high-spectrally resolved mode in supersonic beam measurements. Andreas Hugi, Ph.D. explains the technical background of these acquisition modes and links them to real world applications. Sponsored by Hamamatsu Corp.

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