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Direct Detection Ladar Systems Spie

ARLINGTON, Va., 22 April 2013. Electro-optical sensor experts at Lockheed Martin Corp. and DRS Technologies Inc. are joining a U.S. military research program to develop laser detector array and ...

DRS and Lockheed Martin join DARPA LRT program to develop new laser radar technologies

ARLINGTON, Va., 9 April 2013. Electro-optical sensor experts at Princeton Lightwave Inc. in Cranbury, N.J., will develop laser detector array and laser transmitter technologies for multiple ...

Princeton Lightwave to develop military laser radar target imaging in DARPA LRT contract

A novel fiber-optic distributed acoustic sensor (DAS) utilizing a LiNbO3 straight through waveguide phase modulator as phase generation carrier (PGC) modulation module for the detection of acoustic ...

Fiber-optic distributed acoustic sensor utilizing LiNbO

and Laser Radar (LADAR). Potential non-military applications include DIRCM protection of civilian airliners from shoulder-fired missiles, detection of toxic industrial gases, and atmospheric pollution ...

DARPA selects Pranalytica to develop beam-combining techniques for high-power QC lasers

Dynamic Data Driven Application Systems 12312 ... Orlando, FL: SPIE, 2018. Print. Ientilucci, Emmett. "Processing a New Hyperspectral Data set for Target Detection and Atmospheric Compensation ...

Emmett Ientilucci

Join STMicroelectronics online for the SPIE Photonics West 2021 Digital Forum ... rangers or for example face detection.

SPIE Photonics West 2021

Cochlear implants partially restore hearing via direct electrical stimulation of spiral ganglion ... testing oCI in other species with a hearing system more closely resembling human condition is ...

Optogenetic stimulation of cochlear neurons activates the auditory pathway and restores auditory-driven behavior in deaf adult gerbils

Guyon, O. et al. Wavefront control with the Subaru Coronagraphic Extreme Adaptive Optics (SCExAO) system, volume 8149 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series ...

Scalable photonic-based nulling interferometry with the dispersed multi-baseline GLINT instrument

Apertures and secondary support structures selected for the study (12m diameter or 12m flat-to-flat diameter). To meet the challenge of segmented and obscured aperture coronagraphy, the ExEP's ...

Segmented Coronagraph Design and Analysis (SCDA)

Coming nearly 100 years after Albert Einstein first predicted their existence, but doubted that they could ever be measured, the first direct ... systems in the Universe will be within detection ...

Gravitational-wave physics and astronomy in the 2020s and 2030s

This level of accuracy is achieved with built-in systems that ... need sophisticated detection technology. To date, most driverless cars have used a combination of LADAR (lasers used to measure ...

Driverless cars in Australia

Those designer drugs evade detection if testing labs don't know to look for their specific chemical structures. Chouinard's team at Florida Institute of Technology is trying to outsmart cheaters ...

Doping by athletes could become tougher to hide with new detection method

(Nanowerk News) Histology is the study of biological tissues at a microscopic level. Also called microscopic anatomy, histology is widely used to provide diagnosis of cancer and other diseases. For ...

Holographic histopathology enables fast, precise diagnostics

SEATTLE, March 31, 2021 (GLOBE NEWSWIRE) -- OncoResponse, a biotechnology company harnessing the power of the human immune system to identify and develop novel monoclonal antibodies to ...

OncoResponse Raises \$40.6 Million Series C Financing

The Science of Spectral Signatures: Laser spectroscopy of complex systems in crowded environments with a focus on: Developing sensitive optical techniques for the early detection of cancers ...

Dean Nouredine Melikechi

His undergraduate work was focused on microfabrication, especially on fabricating microsensors for electrochemical detection. In fall 2016, he has joined CASE-BML in CWRU as a direct PhD student. His ...

Lab Members

Instrumentation for photon detection, electronics for point-of-care ... (2009), 'A quantum-limited CMOS-sensor-based high-speed imaging system for time-resolved x-ray scattering', in SPIE Optical ...

Lucas J. Koerner

Kongsberg Maritime, Becker Marine Systems GmbH, Wuxi Delin Marine Equipment Co., Ltd., Damen Marine Components, De Waal BV, and Nakashima Propeller Co., Ltd. are a few key players in the flap rudder ...