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Direct-Detection LADAR Systems (SPIE Tutorial Text Vol

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This text is designed to introduce engineers-in-training to the basic concepts and operation of 3D imaging LADAR systems. The book covers laser range equations; sources of noise in LADAR signals; LADAR waveforms; the effects of wavefront propagation on LADAR beams through optical systems and atmospheric turbulence; algorithms for detecting, ranging, and tracking targets; and comprehensive ...

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Direct Detection LADAR Systems is designed to introduce engineers-in-training to the basic concepts and operation of 3D-imaging LADAR systems.

Direct Detection LADAR Systems B-SPIE-008

The National Institute of Standards and Technology (NIST) adopted the term LADAR (LAsER Detection And Ranging) for these laser-based RADAR-type systems. That term will be used in this text. Online access to SPIE eBooks is limited to

Introduction to LADAR Systems - SPIE

This chapter describes 2D and 3D LADAR systems that perform an imaging function in addition to ranging. A 2D system is one that captures an image of the target area between a minimum and maximum range. This process of selecting a set of ranges through which to form an image is referred to as gated viewing.

LADAR Imaging Systems - SPIE

Chapter 1 featured the computation of signal power measured from a laser pulse reflected from a target. The assumed waveform of the pulse was a rectangular function in time. This chapter describes more complicated waveform models that will allow for a better temporal understanding of a LADAR system's performance.

LADAR Waveform Models - SPIE

LiDAR is one of many active sensor technologies that uses electromagnetic radiation. Operating in the optical and infrared wavelengths, it is similar to more-familiar passive EO/IR sensor technology. It is also similar to radar in that it uses reflected electromagnetic radiation emitted by the sensor.

LiDAR Technologies and Systems | (2019 ... - spie.org

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Home > eBooks > Direct-Detection LADAR Systems > Wave Propagation Models. ... Spatial effects present in a LADAR system model will be accounted for by expanding upon the waveform model introduced in Chapter 2. Instead of modeling the return from the target as a single waveform, we will model the return as a collection of waveforms at different ...

Wave Propagation Models - SPIE

A direct detection time-of-flight ladar simulator has been

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developed to synthesize noisy realizations of true range for the purpose of testing the performance of target recognition algorithms. The simulator can model either peak report or peak report above a threshold using computationally efficient analytic models.

Range precision of direct-detection laser radar systems

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The goals of the DARPA Jigsaw program include the development and demonstration of high-resolution 3-D imaging laser radar (ladar) sensor technology and systems that can be used from airborne platforms to image and identify military ground vehicles that may be hiding under camouflage or foliage such as tree canopy.

High-resolution 3D imaging laser radar flight test ... - SPIE

Richard D. Richmond and Stephen C. Cain, Direct Detection LADAR Systems, SPIE . press, Bellingham, WA, 2010 ... Stephen C.Cain, "Improved space object detection via scintillated short-exposure image data", Proceedings of the SPIE 9982, Unconventional Imaging and Wavefront Sensing XII, San Diego, CA August 2017 ...

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registered LADAR (laser detection and ranging) scans of the work site for task analysis and navigation planning. A similar navigation package will be employed for the Flying Carpet using the ...

(PDF) American Society of Naval Engineers Symposium ...

Direct-Detection LADAR Systems Written for engineers, this book introduces the basic concepts and operation of 3D imaging LADAR systems. Topics include laser range equations, sources of noise in LADAR signals, LADAR waveforms, and algorithms for detecting, ranging, and tracking targets.

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