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Radar Signal Processing Mit Lincoln

MIT IAP 2011 Laptop Based Radar: Block Diagram, ...
MIT Lincoln Laboratory MIT IAP 2011 Radar Instructions-3 GLC 8/28/2012 Motivation • Increase MIT Campus and MIT Lincoln Laboratory collaboration • Increase pool of staff candidates with relevant skills for MIT Lincoln Laboratory • Introduce students to the field of applied electromagnetics, RF design, signal processing, analog design, and radar system
HUSIR Signal Processing - MIT Lincoln Laboratory
HUSIR signal processing equipment is ROSA-based with modifications for use at W-band frequencies (92–100 GHz, or millimeter-wave, 3 mm wavelength) In any radar system, the signal processing workload can be broken into two parts: real-time processing and post-processing (ie, any processing done after the tar-
MTI and Pulse Doppler Processing - MIT Lincoln Laboratory
Radar Course_1ppt ODonnell 10-26-01 MIT Lincoln Laboratory Introduction to Radar Systems Clutter Rejection MTI and Pulse Doppler Processing
Multi-PRI Signal Processing for the Terminal Doppler ...
Multi-PRI Signal Processing for the Terminal Doppler Weather Radar Part II: Range–Velocity Ambiguity Mitigation JOHN Y N CHO Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, Massachusetts (Manuscript received 26 January 2005, in final form 15 April 2005) ABSTRACT
Radar Open System Architecture & New Development Efforts ...
MIT Lincoln Laboratory Radar Open System Architecture & New Development Efforts For The Lincoln Space Surveillance Complex (LSSC) Thomas L Sangiolo MIT Lincoln Laboratory 4 April, 2001 This work is sponsored by the Air Force under – Second Signal Processing System to …

Section 5 Lincoln Laboratory - MIT Organization Chart

Lincoln Laboratory MIT Lincoln Laboratory is a federally funded research and development center (FFRDC) operated by the Insti-tute under contract with the Department of Defense (DoD) The Laboratory's core competencies are in sensors, information extraction (signal processing and embedded computing), communications, integrated

Tech Notes - MIT Lincoln Laboratory

The US Navy asked MIT Lincoln Laboratory to apply its expertise in wideband sampling and low-latency signal processing to develop comprehen-sive multisystem, hardware-in-the-loop (HWIL) testing Conceptually, systems under test would connect to a simulator that provides signal delays and other real-world effects, such as Doppler

On some detection problems in radar array processing ...

On some detection problems in radar array processing involving eigenvalues of Wishart and ‡ MIT Lincoln Laboratory, Lexington, USA SEA06@MIT – p 1/39 O Besson, L L Scharf, S Kraut Outline Framework : radar detection using an array of sensors Generalized Likelihood Ratio Test for detecting a signal the received signal is

Introduction to Radar Signal & Data Processing: The ...

Key words: radar, signal processing, data processing, adaptivity, space-time adaptive processing, knowledge based systems, CFAR 1 SUMMARY This paper introduces to the lecture series dedicated to the knowledge-based radar signal and data processing Knowledge-based expert system (KBS) is in the realm of artificial intelligence

Lecture 4: Synthetic Aperture Radar (SAR) - MIT ...

MIT Lincoln Laboratory 8 ajf 2/16/2010 Synthetic Aperture Radar (SAR) •Small antenna on aircraft illuminates large swaths of ground •Range profiles recorded along flight path •SAR algorithm processes data into image of ground [2] – thereby synthesizing an aperture the length of the aircraft flight path – narrow beamwidth, high resolution and gain

Radar Systems Engineering Lecture 1 - University of New ...

Radar Systems Engineering Lecture 1 Introduction Dr Robert M O'Donnell IEEE New Hampshire Section Radar Site Courtesy of MIT Lincoln Laboratory Used with permission Radar Systems Course 17 Digital Signal Processing,

Radar Tracking System Development - DSpace@MIT: Home

the Tactical Defense Systems group at MIT Lincoln Laboratory Shown in-flight in This is because the monopulse radar is immune to variations in the signal over time that might affect angle calculations Thus, monopulse is the preferred tracking technique digital signal processing (DSP) The three sections of this thesis each focus on

Wideband Radar for Ballistic Missile Defense and Range ...

kind of processing More recent advances in signal processing hard-ware and computational speed have led to the genera-tion and measurement of wideband observables in real time These observables, which can be used for real-time BMD discrimination, include determina-tion of body length, feature identification, and radar images

Multi-PRI Signal Processing for the Terminal Doppler ...

Multi-PRI Signal Processing for the Terminal Doppler Weather Radar Part I: Clutter Filtering JOHN Y N CHO AND EDWARD S CHORNOBOY Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, Massachusetts

Haystack Upgrade Program - MIT Haystack Observatory

Massachusetts Institute of Technology (MIT) has recently initiated a major upgrade of the Haystack Radar in Tyngsborough, Massachusetts The upgrade program is jointly sponsored by the United States Air Force and the Defense Advanced Research Projects Agency and is being executed by Lincoln Laboratory, a feder-

Anti-jamming MTI Radar using Variable Pulse-Codes*

signal-to-clutter ratio by a factor of ,1 where N is the code length This severely limits the ability to perform Doppler and Moving-Target Indication (MTI) processing for clutter suppression on the radar return To recover this performance loss several receiver filtering and digital signal processing techniques are tested

Field Programmable Gate Arrays for Radar Front-End ...

Field Programmable Gate Arrays for Radar Front-End Digital Signal Processing by Tyler J Moeller Submitted to the Department of Electrical Engineering and Computer Science May 22, 1999 In Partial Fulfillment of the Requirements for the Degrees of Bachelor of Science in Electrical Engineering and Computer Science

Radar Systems Engineering Lecture 16 Parameter ...

Radar Systems Engineering Lecture 16 Parameter Estimation and Tracking Part 2 Dr Robert M O'Donnell Courtesy of MIT Lincoln Laboratory Used with Permission Radar Systems Course 6 strong clutter echoes not suppressed by the Doppler processing – The clutter map may also keep track of large bird echoes, so as to not be

Miniature Radar for Mobile Devices - IEEE HPEC

MIT Lincoln Laboratory, Lexington, MA 02420 Corresponding author: praveensharma@llmitedu Abstract We developed a miniature and low-cost radar (radio detection and ranging) sensor for mobile devices A radar differs from Keywords: Smartphone, Miniature Radar, Signal Processing Algorithms, Standalone and Distributed Applications I

University of Nebraska - Lincoln DigitalCommons@University ...

University of Nebraska The radar system transmits white Gaussian noise Detection and localization of buried objects is accomplished by correlating the re¯ected waveform with a time-delayed replica of the transmitted waveform Broadband dual-polarized log-periodic antennas are used for transmission and reception A unique signal-processing