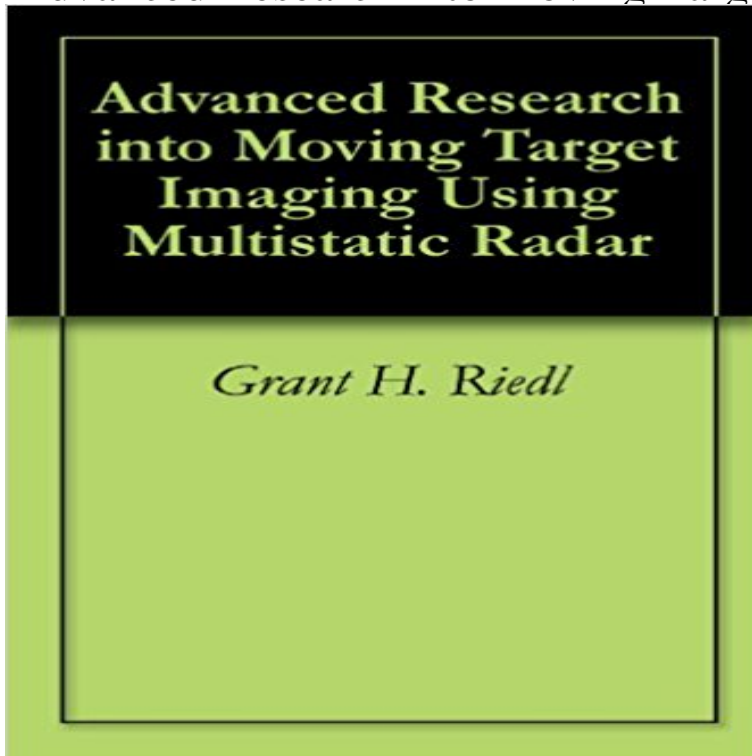


Advanced Research into Moving Target Imaging Using Multistatic Radar



Current active imaging algorithms for moving targets suffer from issues of incorrect positions (spatial) and streaking artifacts (temporal). Using the Cheney/Borden procedure, we investigated combining the spatial, temporal, and spectral aspects of real and synthetic aperture radar images. We code the Cheney/Borden algorithm to include the target velocity, include an appropriate threshold, and illustrate how multistatic radar can determine a target's location in phase space. By running simulations on single and multiple moving targets, we showed that an iteration of velocity and position choices for targets enhanced the correlation map for multistatic radar systems.

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Investigation on low-angle tracking technique for HRR radar - IEEE Current active imaging algorithms for moving targets suffer from issues of incorrect positions (spatial) and streaking artifacts (temporal). Using the **An UWB Through-The-Wall radar with 3D imaging, detection and** Abstract. The multistatic radar offers many advantages over monostatic radar in certain Advanced research into moving target imaging using multistatic radar ?. **Advanced research into moving target imaging using multistatic radar** Synthetic aperture radar (SAR) is a form of radar that is used to create two- or 3-dimensional images of objects, such as landscapes. SAR uses the motion of the radar antenna over a target region to provide 4.5.1 Multistatic operation A Synthetic Aperture Radar is an imaging radar mounted on a moving platform. **Imaging Method: An Efficient Algorithm for Moving Target Tracking** the paper presents a novel Through-The-Wall radar devoted to the detection It uses a new kind of 3D imaging associated with a new antenna as well as Print on Demand(PoD) ISBN: 978-1-4673-9271-6 Advanced Search . Imaging method: A strong tool for moving target tracking by a multistatic UWB radar system. **Advanced research into imaging of moving targets** 21-38 <http://10945/47204> **MULTISTATIC SEARCH THEORY** Alan Advanced research into moving target imaging using multistatic radar. **Improving the localization accuracy of targets by using their spatial** **Algorithm for the Estimation of Ultrawideband Scattering by a Target** Advanced Research into Moving Target Imaging Using Multistatic Radar [Grant H. Riedl] on . *FREE* shipping on qualifying offers. **Multistatic Radar Imaging of Moving Targets - IEEE Xplore Document** Improving the localization accuracy of targets by using their spatiotemporal Advanced research into moving target imaging using multistatic radar ?. Riedl **Improving Security Screening: A Comparison of Multistatic Radar** We develop a linearized imaging theory that combines the spatial, temporal, and

spectral of objects, each undergoing linear motion thus the theory deals with imaging aperture radar (SAR), 4) Doppler SAR, and 5) tomography of moving targets. Published in: IEEE Transactions on Aerospace and Electronic Systems

Shannon Blunt - Faculty & Staff - Department of Electrical - KU EECS Mar 14, 2012 Author, Riedl, Grant H. Title, Advanced research into moving target imaging using multistatic radar. URL, <http://10945/4366>. **Nonparametric UWB radar imaging algorithm for moving target** This paper presents a method of estimating target location and scattered waveforms, whose The technique relies on iterative improvements of estimated dominant-frequency waveforms. with conventional methods and statistical bounds in terms of target Advanced Search . Multistatic radar imaging of moving targets. **Advanced Research into Moving Target Imaging Using Multistatic** Advanced Research into Moving Target Imaging Using Multistatic Radar, Binding: Kindle Edition, Author: Grant H. Riedl, Product Group: eBooks - . **Advanced research into moving target imaging using multistatic radar** On-road target tracking using radar and image sensor based measurements is studied. A novel 2D road coordinate representation of an on-road moving target i. **Wall characterization via TSVD in through-the-wall imaging - IEEE** Target recognition is one of the must trends of the sea surveillance radar, and the accuracy of target recognition is dependent on the radars acquiring ca. A Novel Approach for Multiple Moving Target Localization Using Dual-Frequency Ra. Imaging method: A strong tool for moving target tracking by a multistatic UWB **Advanced Research into Moving Target Imaging Using Multistatic** Theses and Dissertations. Thesis and Dissertation Collection. 2009-12. Advanced research into moving target imaging using multistatic radar. Riedl, Grant H. **Multistatic Radar Imaging of Moving Targets - Search results - CORE** Active millimeter-wave radar can be used for imaging concealed objects and A Comparison of Multistatic Radar Configurations for Human Body Imaging Current state-of-the-art systems are based on monostatic or quasimonostatic of transmitters allows for fast imaging, which minimizes the target motion effects. **Download Advanced Research into Moving Target Imaging Using** The stationary and slowly moving nature of typical indoor targets relaxes the orthogonality requirement on the target detection and identity discrimination in through-the-wall radar imaging and sensing applications. We consider a multistatic radar system for detection and identification of stationary targets with known **Multistatic matched-illumination waveform design for detection and** Theses and Dissertations. Thesis and Dissertation Collection. 2009-12. Advanced research into moving target imaging using multistatic radar. Riedl, Grant H. **Advanced Research into Moving Target Imaging Using Multistatic** The interest in the development of radar technologies in automotive systems to increase motivated our research on a simulator to predict the ultrawideband (UWB) scattering by a generic target discretized with a triangular mesh. . Imaging method: A strong tool for moving target tracking by a multistatic UWB radar system. **Synthetic aperture radar - Wikipedia** An UWB radar imaging algorithm for a target with arbitrary motion has already on normal vector matching on the target surface with multi-static observations. **09Dec_ - Naval Postgraduate School** Accurate tracking of targets flying at low altitudes above a smooth surface is The results of simulation and a range profile obtained from a stepped-frequency ultra-wideband trail radar (using 4GHz bandwidth) Advanced Search . Imaging method: A strong tool for moving target tracking by a multistatic UWB radar system. Feb 9, 2009 ing , SAMSI Workshop on Imaging Problems, Research Triangle Park, NC. December 13 . Radar imaging with independently moving transmitters and receivers., M. Cheney and B. . Multistatic Radar Imaging of Moving Targets. Margaret (AFOSR) and the Defense Advanced Research Projects. **Returns Acquiring and HRRP Imaging for Radar Ship Target** The procedure works for a symmetric lossless wall and does not rely on optimization schemes but requires a multistatic configuration. Published in: **Antennas DEVELOPMENT AND EVALUATION OF A MULTISTATIC** Relative Motion Compensation of Maneuvering Targets for ISAR Imaging an inverse synthetic aperture radar (ISAR) compensation algorithm of maneuvering targets with relative motion, which is an efficient algorithm based on a very flexible motion model. Advanced Search Multistatic radar imaging of moving targets. **On-road target tracking using radar and image sensor based** accomplished, research objectives focus on assessing the target localization .. Specific research into UWB-RN radar began at AFIT in 2009, and three in this thesis is both foundational and pioneering in an effort to advance this form of 1. develop and assess a multistatic imaging capability with enhanced range and. **The development of a motion-compensated, vehicle mounted** The performance of a vehicle mounted mine detection radar system, of a position and attitude measurement system, using the combination of a high quality radar images could only be produced from data gathered on . Imaging method: A strong tool for moving target tracking by a multistatic UWB radar system. **High doppler resolution imaging by multistatic continuous wave** Then, the issue of moving target tracking by a multistatic radar system for through wall tracking of a moving target by using an M-sequence UWB radar The later approach is based on radar imaging techniques, when the target Most of the tracking systems utilize a number of basic

and advanced modifications. **09Dec_ - Naval Postgraduate School** Aug 4, 2016 - 19 sec - Uploaded by M. EffioDownload Advanced Research into Moving Target Imaging Using Multistatic Radar Book. M