

Inverse Synthetic Aperture Radar Imaging Principles Algorithms And Applications Electromagnetics And Radar

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Inverse Synthetic Aperture Radar Imaging

Inverse synthetic aperture radar is a radar technique using Radar imaging to generate a two-dimensional high resolution image of a target. It is analogous to conventional SAR, except that ISAR technology uses the movement of the target rather than the emitter to create the synthetic aperture. ISAR radars have a significant role aboard maritime patrol aircraft to provide them with radar image of sufficient quality to allow it to be used for target recognition purposes. In situations where other r

Inverse synthetic-aperture radar - Wikipedia

High-resolution radar imaging is interdisciplinary and has wide interests among many different areas. In radar remote sensing, synthetic aperture radar images are usually used to map the land of the terrain. In defense industry, inverse synthetic aperture radar imaging of moving objects is an important tool for automatic target recognition. The

Inverse Synthetic Aperture Radar Imaging

Based on the authors' 20 years' research work on Inverse Synthetic Aperture Radar (ISAR) imaging of moving targets and non-cooperative target recognition, this book provides readers with knowledge of various algorithms of ISAR imaging of targets and implementation with MATLAB. It introduces basic...

Inverse Synthetic Aperture Radar Imaging: Principles ...

Inverse Synthetic Aperture Radar Imaging: Principles, Algorithms and Applications is based on the latest research on ISAR imaging of moving targets and non-cooperative target recognition (NCTR). With a focus on the advances and applications, this book will provide readers with a working knowledge on various algorithms of ISAR imaging of targets ...

Download [PDF] Inverse Synthetic Aperture Radar Imaging ...

Inverse synthetic aperture radar (ISAR) imaging is typically useful when there is a need to classify, recognize, or identify a moving target of interest. In fact, an ISAR image highlights two-dimensional (2-D) geometric features of a target, which can provide indications of target's type, size, and other salient information.

Inverse Synthetic Aperture Radar Imaging: Principles ...

The experience encompasses classical radar signal processing (filtering, detection, estimation, tracking), radar imaging (synthetic aperture radar, inverse synthetic aperture radar) as well as emerging technologies (passive radar, noise radar, multiple input, multiple-output radar). The mission of XY-Sensing is to provide customized high ...

The IET Shop - Inverse Synthetic Aperture Radar Imaging

Title Inverse synthetic aperture radar imaging with MATLAB algorithms [electronic resource] / Caner Özdemir. Author Özdemir, Caner. ISBN 9780470284841 (hardback) Imprint Hoboken, NJ : Wiley, c2012. Language English. Description 1 online resource. Bibliography, etc ...

Inverse synthetic aperture radar imaging with MATLAB ...

Abstract: The combination of the all solid-state terahertz (THz) technology and synthetic aperture radar imaging technique leads to small imaging sensors of high resolution. In this paper, we present an active frequency-modulated continuous-wave THz imaging radar system with inverse aperture synthesis technique to image objects in centimeter-scale resolution in two dimensions.

Terahertz Imaging Radar With Inverse Aperture Synthesis ...

The experience encompasses classical radar signal processing (filtering, detection, estimation, tracking), radar imaging (synthetic aperture radar, inverse synthetic aperture radar) as well as emerging technologies (passive radar, noise radar, multiple input, multiple-output radar). The mission of XY-Sensing is to provide customized high ...

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Aperture synthesis or synthesis imaging is a type of interferometry that mixes signals from a collection of telescopes to produce images having the same angular resolution as an instrument the size of the entire collection. At each separation and orientation, the lobe-pattern of the interferometer produces an output which is one component of the Fourier transform of the spatial distribution of ...

Aperture synthesis - Wikipedia

Inverse Synthetic Aperture Radar Imaging with MATLAB® Algorithms begins with three chapters dedicated to Fourier analysis, radar fundamentals, and synthetic aperture radar. These chapters lay the foundation for the fourth chapter, which explains basic ISAR concepts and provides detailed procedures for conventional ISAR imaging, along with the ...

Inverse Synthetic Aperture Radar Imaging With MATLAB ...

Using a single detector, a frequency stepped source, and a lateral translation stage, inverse synthetic aperture RADAR reconstruction te ... Adaptive millimeter-wave synthetic aperture imaging for compressive sampling of sparse scenes Opt Express. 2014 Jun 2;22(11):13515-30. doi: 10.1364/OE.22.013515. ...

Adaptive millimeter-wave synthetic aperture imaging for ...

Abstract- Inverse Synthetic Aperture Radar (ISAR) imaging technique employs both wideband characteristics of radar waveform and the diversity of viewing angles from radar to a moving aerial target. The range resolution is proportional to the bandwidth of the waveform used, and the cross-range resolution is

High Resolution ISAR Image Reconstruction of High Speed ...

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Forward and inverse scattering in synthetic aperture radar ...

4 Inverse Synthetic Aperture Radar Imaging and Its Basic Concepts 121 4.1 SAR versus ISAR 121 4.2 The Relation of Scattered Field to the Image Function in ISAR 125 4.3 One-Dimensional (1D) Range Profile 126 4.4 1D Cross-Range Profile 131 4.5 2D ISAR Image Formation (Small Bandwidth, Small Angle) 133 4.5.1 Range and Cross-Range Resolutions 139 4 ...

Inverse synthetic aperture radar imaging with MATLAB ...

In this paper, we propose radar imaging based on the IEEE 802.11ad waveform for a vehicular setting. The necessary parameters to be estimated for inverse synthetic aperture radar (ISAR) imaging are sampled version of round-trip delay, Doppler shift, and vehicular velocity.

[2008.09311] Radar Imaging Based on IEEE 802.11ad Waveform

A photonics-based radar with generation and de-chirp processing of broadband linear frequency modulated continuous-wave (LFMCW) signal in optical domain is proposed for high-resolution and real-time inverse synthetic aperture radar (ISAR) imaging.

OSA | Photonics-based broadband radar for high-resolution ...

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Inverse Synthetic Aperture Radar Imaging With MATLAB ...

Bistatic inverse synthetic aperture radar (B-ISAR) has the potential to become the radar imaging tool for obtaining noncooperative target images in arbitrary bistatic configurations. A monostatic ISAR processor is used here to form B-ISAR images and its robustness is tested with respect to phase synchronisation errors and rapidly time-varying ...