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Inverse synthetic aperture radar is a radar technique using Radar imaging to generate a two-

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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

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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

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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



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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...

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on the latest research  
on ISAR imaging of  
moving targets and  
non-cooperative target  
recognition (NCTR).  
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advances and  
applications, this book  
will provide readers  
with a working  
knowledge on various  
algorithms of ISAR  
imaging of targets ...

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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

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target's type, size, and other salient information.

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Abstract: The

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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

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resolution in two  
dimensions.

## Matlab Algorithms **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



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emerging technologies (passive radar, noise radar, multiple input, multiple-output radar).

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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**

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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

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a frequency stepped  
source, and a lateral  
translation stage,  
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of sparse scenes Opt  
Express. 2014 Jun  
2;22(11):13515-30.

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## **Adaptive millimeter- wave synthetic aperture imaging for**

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Abstract- Inverse  
Synthetic Aperture  
Radar (ISAR) imaging  
technique employs  
both wideband  
characteristics of radar

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Aperture 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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In this paper, we  
propose radar imaging  
based on the IEEE



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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

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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.

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resolution ...**

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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.

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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 ...

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