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The Micro Doppler Effect In

Micro-Doppler effect in time frequency domain can be a good candidate to identify if there is pedestrian signature embedded in the radar signal. As an example, the following section simulates the radar return for 2.5 seconds.

Introduction to Micro-Doppler Effects - MATLAB & Simulink

The micro-Doppler effect was originally introduced in a coherent laser system to measure the kinematic properties of an object, such as the vibration rate and the displacement of the vibration. Micro-Doppler frequency shifts can be characterized by the

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distinctive signature that represents the intricate features

The Micro-Doppler Effect in Radar - pudn.com

Micro-Doppler effect in radar: phenomenon, model, and simulation study Abstract: When, in addition to the constant Doppler frequency shift induced by the bulk motion of a radar target, the target or any structure on the target undergoes micro-motion dynamics, such as mechanical vibrations or rotations, the micro-motion dynamics induce Doppler modulations on the returned signal, referred to as ...

Micro-Doppler effect in radar: phenomenon, model, and ...

The signal separation method based on the short time Fourier transform (STFT) and the L-statistics can effectively eliminate the interference of the micro-Doppler effect on inverse synthetic aperture radar (ISAR) imaging. The insufficient frequency

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resolution of STFT will result in poor interference cancellation when the azimuth range between two adjacent scatterers is small.

IET Digital Library: Removal of micro-Doppler effect in ...

Written by a prominent expert in the field, this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gender recognition via micro-radar, as well as covering basic principles of Doppler effect and micro-Doppler effect and describing basic applications of micro-Doppler signatures in radar.

ARTECH HOUSE USA : The Micro-Doppler Effect in Radar

...

II. MICRO-DOPPLER EFFECT INDUCED BY MICRO-MOTION

DYNAMICS The micro-Doppler effect induced by micro-motions of a target or structures on the target can be derived from the

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theory of electromagnetic back-scattering field. It can be mathematically formulated by augmenting the conventional Doppler effect analysis using micro-motions.

Micro-Doppler Effect in Radar: Phenomenon, Model, and

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The Micro-Doppler Effect in Radar (2nd ed.) by Victor C. Chen. Written by a prominent expert in the field, this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gender recognition via micro-radar, as well as covering basic principles of Doppler effect and micro-Doppler effect and describing basic applications of micro ...

The Micro-Doppler Effect in Radar (2nd ed.)

The Doppler effect (or the Doppler shift) is the change in frequency of a wave in relation to an observer who is moving

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relative to the wave source. It is named after the Austrian physicist Christian Doppler, who described the phenomenon in 1842.. A common example of Doppler shift is the change of pitch heard when a vehicle sounding a horn approaches and recedes from an observer.

Doppler effect - Wikipedia

The Micro-Doppler Effect in Radar, Second Edition, authored by Dr. Victor C. Chen, includes great new applications and examples. Dr. Chen is also the founder of Ancortek; you can find more micro-Doppler related material on his company website: www.ancortek.com. We use this great reference to model micro-Doppler behavior.

Algorithms to Antenna: Modeling Micro-Doppler Effects ...

The micro-Doppler effect is derived for a vibrating target in the bistatic SAR. The corresponding bistatic factor is shown to be a

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function of the bistatic acquisition geometry.

(PDF) Micro-Doppler Detection in Forward Scattering Radar ...

The micro-Doppler effect is presented from two aspects, including micro-Doppler effect analysis and micro-Doppler feature extraction, with micro-Doppler effects induced by different micro-motional targets in different radar systems analyzed and several methods of micro-Doppler feature extraction and three-dimensional micro-motion feature reconstruction presented.

Micro-Doppler Characteristics of Radar Targets | ScienceDirect

The Doppler Effect can be thought of as the change in frequency of a wave for an observer moving relative to the source of the wave. In radar, it is used to measure the velocity of detected

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objects. This highly practical resource provides thorough working knowledge of the micro-Doppler effect in radar, including its principles, applications and implementation with MATLAB codes.

The Micro-Doppler Effect in Radar With DVD (Artech House ...

Micro-doppler effect in radar: phenomenon, model, and simulation study

(PDF) Micro-doppler effect in radar: phenomenon, model ...

Abstract: The vortex electromagnetic (EM) wave carrying orbital angular momentum (OAM) has attracted much attention in radar applications. Aimed at the moving target detection application of vortex EM waves, the Doppler effect and the micro-Doppler (m-D) effect, both including the linear Doppler shift and the angular Doppler shift, are investigated.

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Doppler effect and micro-Doppler effect of vortex ...

micro-Doppler effect [1, 2]. Micro-Doppler signatures enable us to determine some properties of the target. The micro-Doppler effect was originally introduced in coherent laser radar systems. In a coherent system, the phase of a signal returned from a target is sensitive to the variation in range. In many cases, a target or structures on the target

Analysis of micro-Doppler signatures

called the micro-Doppler effect. The physical essence of micro-Doppler is the Doppler effect of the relative distance between the equivalent scattering center of the target and the phase center of the radar antenna as the micro-motion changes. Under the condition of small relative measurement bandwidth and observation ac-

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Research on micro-Doppler feature of spatial target

1 Micro-Doppler Signatures - Review, Challenges, and Perspectives + Show details-Hide details p. 1 -25 (25) The micro-Doppler signature is a distinctive characteristic of the observed micro-Doppler effect in an object. The “signature” is commonly used to refer to the characteristic expression of an object or a process.

IET Digital Library: Radar Micro-Doppler Signatures ...

The mathematics of the micro-Doppler effect from radar can be derived from introducing micro-motion to the conventional Doppler analysis. In this section the basics of the micro-Doppler effect are introduced. This is important for the understanding and the derivation of the micro-Doppler effects in more complex and realistic cases.

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