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~~processing: p067 Dictionary Learning Robust Face Recognition via~~

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*For Radar With*

Sparse Representations for Radar with MATLAB® Examples.

Abstract: Although the field of sparse representations is relatively

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new, research activities in academic and industrial research labs are already producing encouraging results. The sparse signal or parameter model motivated several researchers and practitioners to explore high complexity/wide bandwidth applications such as Digital TV, MRI processing, and certain defense applications.

*Sparse Representations for Radar with MATLAB® Examples ...*

The sparse signal or parameter model motivated several researchers and practitioners to explore high complexity/wide bandwidth applications such as Digital TV, MRI processing, and certain defense applications. The potential signal processing advancements in this area may influence radar technologies.

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The sparse signal or parameter model motivated several researchers and practitioners to explore high complexity/wide bandwidth applications such as Digital TV, MRI processing, and certain defense applications. The potential signal processing advancements in this area may influence radar technologies.

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[electronic resource] Responsibility. Peter Knee. Imprint. San Rafael, Calif. (1537 Fourth Street, San Rafael, CA 94901 USA) : Morgan & Claypool, c2012. Physical description. 1 electronic text (xiii, 71 p.). Series.

*Sparse representations for radar with MATLAB examples ...*

The basic aim in finding a sparse representation for a signal is to determine a linear combination of elementary elements that are able to adequately (according to some metric) represent the signal.

Consider a set of unit-norm column vector elements,  $[d_1, \dots, d_N]$ , stacked into a matrix  $D \in \mathbb{R}^{M \times N}$ , known as an  $N$ -element dictionary. The linear combination of all elements in the dictionary can be written as

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$y = x_1d_1 + \dots + x_Nd_N$ , (2.1) where  $x_n$  are scalar coefficients. In matrix notation this is equivalent to  $y \dots$

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...

Sparse Representations For Radar With The sparse signal or parameter model motivated several researchers and practitioners to explore high complexity/wide bandwidth applications such as Digital TV, MRI processing, and certain defense applications. The potential signal processing advancements in this area may influence radar technologies. Sparse Representations for Radar with

*Sparse Representations For Radar With Matlab Examples ...*

Abstract: We propose a sparse representation approach for



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Classifying different targets in Synthetic Aperture Radar (SAR) images. Unlike the other feature based approaches, the proposed method does not require explicit pose estimation or any preprocessing.

*Sparse representations for automatic target classification ...*

Sparse Representation in Structured Dictionaries With Application to Synthetic Aperture Radar. Abstract: Sparse signal representations and approximations from overcomplete dictionaries have become an invaluable tool recently. In this paper, we develop a new, heuristic, graph-structured, sparse signal representation algorithm for overcomplete dictionaries that can be decomposed into subdictionaries and whose dictionary elements can be arranged in a hierarchy.

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*Sparse Representation in Structured Dictionaries With ...*

All approaches rely on high-frequency radar backscatter phenomenology so that sparse signal representations align with physical radar scattering properties of the objects of interest. We present full 360° 3-D SAR visualizations of objects from air-to-ground X-band radar measurements using different flight paths to illustrate and compare the two approaches.

*Sparse Signal Methods for 3-D Radar Imaging - IEEE ...*

Sparse representations for radar with Page 2/27. Download File PDF Sparse Representations For Radar With Matlab Examples Synthesis Lectures On Algorithms And Software In Engineering MATLAB® examples ... Sparse Representation-Based SAR

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## *Sparse Representations For Radar With Matlab Examples ...*

To further enhance the detection performance, one alternative is to use sparse signal separation. This is an alternative paradigm, whereby the different spatio-temporal characteristics of the radar signal are exploited to separate targets from the background interference.

## *Comparison of Sparse Signal Separation Algorithms for ...*

Sparse representations for radar with MATLAB® examples. [Peter Knee] -- Although the field of sparse representations is relatively new, research activities in academic and industrial research labs are already producing encouraging results.

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*Sparse representations for radar with MATLAB® examples ...*

Recently, compressed sensing (CS) has been applied in synthetic aperture radar (SAR). A framework of mixed sparse representation (MSR) has been proposed for reconstructing SAR images due to the complicated ground features. The existing method decomposes the image into the point and smooth components, where the sparse constraint is directly applied to the smooth components.

*Mixed sparse representation for approximated observation ...*

In this study, we propose a SAR ATR method by the two-phase sparse representation, which combines the advantages of the collaborative representation and SRC. The collaborative representation is performed on the local dictionaries to evaluate the

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absolute representation capabilities of different classes whereas SRC is employed to evaluate the relative representation capabilities of the selected candidate classes.

## *Target Recognition of Synthetic Aperture Radar Images ...*

(2019). Angle estimation in MIMO radar using a new sparse representation approach. International Journal of Electronics: Vol. 106, No. 11, pp. 1694-1709.

## *Angle estimation in MIMO radar using a new sparse ...*

In practice, radar return is usually contaminated by noise, which results in profile distortion and recognition performance degradation. To deal with this problem, in this paper, a novel denoising method based on sparse representation is proposed to

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*Sparse Representation Denoising for Radar High Resolution ...*

Sparse representation based synthetic aperture radar (SAR) imaging approaches have shown their superior performance and great potential in compressed sensing SAR imaging field. However, for many existing approaches, the reconstruction accuracy may be affected by inexact observation and low radar sampling ratio.

*Compressed Sensing SAR Imaging Based on Centralized Sparse ...*

In this study, a phased array radar was used to accurately image stationary and moving ship targets on the vast sea surface. To solve the challenge in real-time processing of the massive amount of data generated by phased array synthetic-aperture radar imaging, this

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study leveraged the block sparse characteristics of ships on the sea surface and adopted the joint block orthogonal matching ...

*Imaging Algorithm for Sea-Surface Ship Targets Based on ...*  
Sparse Representations for Radar with MATLAB® Examples, Peter  
Knee, Morgan & Claypool Publishers, Series Editor A. Spanias,  
October 2012. Theory and Applications of Gaussian Quadrature  
Methods, Narayan Kovvali, Morgan & Claypool Publishers, Series  
Editor A. Spanias, September 2011.

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