

## Sparse Representations For Radar With Matlab Examples Synthesis Lectures On Algorithms And Software In Engineering

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### Sparse Representations For Radar With

Sparse Representations for Radar with MATLAB® Examples Abstract: Although the field of sparse representations is relatively 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 ...

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

Sparse Representations for Radar with MATLAB Examples (Synthesis Lectures on Algorithms and Software in Engineering) [Knee, Peter] on Amazon.com. \*FREE\* shipping on qualifying offers. Sparse Representations for Radar with MATLAB Examples (Synthesis Lectures on Algorithms and Software in Engineering)

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

Sparse representations for radar with MATLAB examples [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  $y = x_1 d_1 + \dots + x_N d_N$ , (2.1) where  $x_n$  are scalar coefficients. In matrix notation this is equivalent to  $y =$  ...

### Series ISSN: 1938-1729 KNEE & MC Morgan Claypool Publishers ...

Multipolarization Through-Wall Radar Imaging Using Low-Rank and Jointly-Sparse Representations. Abstract: Compressed sensing techniques have been applied to through-the-wall radar imaging (TWRI) and multipolarization TWRI for fast data acquisition and enhanced target localization. The studies so far in this area have either assumed effective wall clutter removal prior to image formation or performed signal estimation, wall clutter mitigation, and image formation independently.

### Multipolarization Through-Wall Radar Imaging Using Low ...

the radar signals ([6], [7]). Previous work has shown that returns from slow moving point targets are sparsely represented using low oscillatory signals or 'low Q' wavelets, whilst fast targets are sparse with 'high Q' wavelets [8]. This led to the formulation of a signal separation problem, in which the collected radar signals  $y$  are

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

An orthogonal basis is a dictionary of minimum size that can yield a sparse representation if designed to concentrate the signal energy over a set of few vectors. This set gives a geometric signal description. Efficient signal compression and noise-reduction algorithms are then implemented with diagonal operators computed with fast algorithms.

### Sparse Representations 1 - GitHub Pages

Sparse signal representation has successfully been used for solving inverse problems in a variety of applications. It has many capabilities for various reconstruction and recognition tasks; however, it has mostly been used in real-valued problems. Owing to the complex-valued and potentially random phase nature of the reflectivities in SAR, our approach

### ISSN 1751-8784 Sparse representation-based synthetic ...

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 Matlab(r) Examples ...

Signal sparse representation is a new signal analysis and synthesis method, the purpose is to express the signal with the least atoms by an over complete dictionary.

### An adaptive SAR image compression method - ScienceDirect

5. Sparse representations in radar --5.1 Echo signal detection and image formation --5.2 Angle-Doppler-range estimation --5.3 Image registration (matching) and change detection for SAR --5.4 Automatic target classification --5.4.1 Sparse representation for target classification --5.4.2 Sparse representation-based spatial pyramids. A.

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

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 remove the Gaussian white additive noise.

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

Sparse representation theory is derived from the compressed sensing and is built on over-complete dictionary, which is an over-complete redundancy function. The element in the over-complete dictionary is called an atom. In this paper, in contrast with the conventional dictionary construction, pedestrian features are taken as the basic elements ...

### Feature Selection and Pedestrian Detection Based on Sparse ...

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 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 ...

Multiple-input multiple-output (MIMO) radars have attracted lots of attention for their special advantages. As a key issue, target localization method for MIMO radar has also been studied by lots of...