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

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Sparse Representations For Radar With

1 High-Resolution Radar via Compressed Sensing
conditions, compressed sensing radar achieves better target resolution than classical radar II COMPRESSED SENSING Recently, the signal processing/mathematics community has seen a paradigmatic shift in the way information is represented, stored, transmitted and recovered [5]–[7] This area is often referred to as Sparse Representations and

ISSN 1751-8784 Sparse representation-based synthetic ...
Published in IET Radar, Sonar and Navigation ISSN 1751-8784 Sparse representation-based synthetic aperture radar imaging S Samadi1 M C¸etin2 MA Masnadi-Shirazi1 1School of Electrical and Computer Engineering, Shiraz University, Zand Street, sparsest of all representations under certain conditions [7–11] However

Pseudo-Zernike Moments Based Sparse Representations for ...
Pseudo-Zernike Moments Based Sparse Representations for SAR Image Classification Shahzad Gishkori and Bernard Mulgrew Abstract—We propose radar image classification via pseudo-Zernike moments based sparse representations We exploit in-variance properties of pseudo-Zernike moments to

…

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

of a radar system such as range resolution or Doppler estimationThe objective of this book is to highlight the potential of sparse representations in radar signal processing Early work in sparse representations by mathematicians and engineers concentrated on the

Sparse representation-based algorithm for joint SAR image ...

Sparse representation-based algorithm for joint SAR image optical images), there is certainly a need to consider sparse representations in various dictionaries Accordingly, there Sparse representation-based algorithm for joint SAR image formation and autofocus

SAR Target Classification Using Sparse Representations and ...

SAR Target Classification Using Sparse Representations and Spatial Pyramids targets in synthetic aperture radar (SAR) imagery using image by using a sparse representation to describe the

Sparse signal separation and imaging in Synthetic Aperture ...

Sparse signal separation and imaging in Synthetic Aperture Radar Mike Davies University of Edinburgh Joint work with Sparse representations can enable a meaningful Spotlight-mode SAR" IEEE Radar Conference 2011 • S I Kelly, C Du, G Rilling and ME Davies, Advanced Image Formation and Processing of Partial SAR Data

Research Article A Joint Doppler Frequency Shift and DOA ...

Research Article A Joint Doppler Frequency Shift and DOA Estimation Algorithm Based on Sparse Representations for Colocated TDM-MIMO Radar TaoChen,HuanxinWu,andLutaoLiu

Sparse Recovery Over Continuous Dictionaries -Just Discretize

estimation, high-resolution radar, signal sampling, and remote sensing, to name a few However, from a theoretical perspective, signals that have sparse representations in a continuous dictionary might not have sparse representations after discretization [2], raising con-cerns about the validity of applying sparse recovery algorithms and theories

TO APPEAR IN IEEE TRANSACTIONS ON SIGNAL PROCESSING ...

TO APPEAR IN IEEE TRANSACTIONS ON SIGNAL PROCESSING 1 High-Resolution Radar via Compressed Sensing Matthew A Herman and Thomas Strohmer Abstract—A stylized compressed sensing radar is proposed in which the time-frequency plane is discretized into an N£N grid Assuming the number of targets K is small (ie, K ¿ N2), then we can transmit a sufficiently "incoherent" pulse …

IEEE TRANSACTIONS ON SIGNAL PROCESSING, ACCEPTED 1 ...

Sparse Representation in Structured Dictionaries with Application to Synthetic Aperture Radar Kush R Varshney, Graduate Student Member, IEEE, Mu¨jdat C¸etin, Member, IEEE, John W Fisher, III, Member, IEEE, and Alan S Willsky, Fellow, IEEE Abstract Sparse signal representations and approximations from overcomplete dictionaries have become an

3548 IEEE TRANSACTIONS ON SIGNAL PROCESSING, VOL. 56, ...

Sparse Representation in Structured Dictionaries With Application to Synthetic Aperture Radar Kush R Varshney, Student Member, IEEE, Müjdat Çetin, Member, IEEE, John W Fisher, III, Member, IEEE, and Alan S Willsky, Fellow, IEEE Abstract—Sparse signal representations and approximations from overcomplete dictionaries have become an

Sparse Representations and the Basis Pursuit Algorithm

o Sparse and Redundant Representations offer a new and highly effective model – we call it Sparseland o We shall describe this and descendant versions of it that lead all the way to … deep-learning Michael Elad The Computer-Science Department The Technion

Golay Complementary Waveforms for Sparse Delay-Doppler ...

Golay Complementary Waveforms for Sparse Delay-Doppler Radar Imaging Yuejie Chi], Robert Calderbank , Ali Pezeshki∗]Princeton University, Princeton, NJ 08544, USA ∗Colorado State University, Fort Collins, CO 80523, USA Abstract—We present a new approach to radar imaging that exploits sparsity in the matched filter domain to enable high resolution imaging of targets in delay and Doppler

A Joint Doppler Frequency Shift and DOA Estimation ...

ResearchArticle A Joint Doppler Frequency Shift and DOA Estimation Algorithm Based on Sparse Representations for Colocated TDM-MIMO Radar TaoChen,HuanxinWu,andLutaoLiu

Tensor Sparsity for Classifying Low-Frequency Ultra ...

classification using either a single channel (radar polarization) or multiple channels of SAR imagery In sparse representations, many signals can be expressed by a linear combination of few bases taken from a “dictionary” Based on this theory, SRC [4] was originally developed for robust face recognition The main idea in SRC is to represent

ConstructionofSparseRepresentationsof ...

Sparse representations of sequences facilitate signal processing tasks in many radar, sonar, communications, and information hiding applications Previously, conditions for the construction of a compactly supported finite Zak transform of the linear FM chirp were investigated

Compressed sensing radar

target resolution than classical radar II COMPRESSED SENSING Recently, the signal processing/mathematics community has seen a paradigmatic shift in the way information is represented, stored, transmitted and recovered [4], [5], [6] This area is often referred to as Sparse Representations and Compressed Sensing

Application of Compressive Sensing to Sparse Channel ...

Application of Compressive Sensing to Sparse Channel Estimation Christian R Berger, Carnegie Mellon University Zhaohui Wang, Jianzhong Huang, and Shengli Zhou, University of Connecticut Abstract—Compressive sensing is a topic that has recently gained much attention in the applied mathematics and signal processing communities

Multibaseline polarimetric synthetic aperture radar ...

The theory asserts that if f has approximately sparse representation in one basis , then it is indeed possible to recover f from a small number of projections b , under the condition that A is incoherent with , by L1 minimization: Liang et al: Multibaseline polarimetric synthetic aperture radar …