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Sparse and Redundant Representations is intended for graduate students in applied mathematics and electrical engineering, as well as applied mathematicians, engineers, and researchers who are active in the fields of signal and image processing.

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The vector is the representation (sparse/redundant) of the desired signal x. The core idea: while few (L out of K) atoms can be merged to form the true signal, the noise cannot be fitted well. Thus, we obtain an effective projection of the noise onto a very low-dimensional space, thus getting denoising effect.

Sparse & Redundant Representation Modeling of Images ...
Image Denoising Via Sparse and Redundant Representations Over Learned Dictionaries Abstract: We address the image denoising problem, where zero-mean white and homogeneous Gaussian additive noise is to be removed from a given image. The approach taken is based on sparse and redundant representations over trained dictionaries.

Image Denoising Via Sparse and Redundant Representations ...
Sparse decomposition Noiseless observations. Consider a linear system of equations =, where is an underdetermined × matrix (<) and ∈.The matrix (typically assumed to be full-rank) is referred to as the dictionary, and is a signal of interest. The core sparse representation problem is defined as the quest for the sparsest possible representation satisfying =.

Sparse approximation - Wikipedia
Abstract—We address the image denoising problem, where zero-mean white and homogeneous Gaussian additive noise is to be removed from a given image. The approach taken is based on sparse and redundant representations over trained dictio- naries. Using the K-SVD algorithm, we obtain a dictionary that describes the image content effectively.

3736 IEEE TRANSACTIONS ON IMAGE PROCESSING, VOL. 15, NO ...
Abstract: The purpose of this contribution is to generalize some recent results on sparse representations of signals in redundant bases. The question that is considered is the following: given a matrix A of dimension (n,m) with m>n and a vector b=Ax, find a sufficient condition for b to have a unique sparsest representation x as a linear combination of columns of A. Answers to this question ...

On sparse representations in arbitrary redundant bases ...
CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Abstract—The purpose of this contribution is to generalize some recent results on sparse representations of signals in redundant bases. The question that is considered is the following: given a matrix of dimension ( ) with and a vector = , find a sufficient condition for to have a unique sparsest representation as a ...

On sparse representations in arbitrary redundant bases (2004)
This textbook introduces sparse and redundant representations with a focus on applications in signal and image processing. The theoretical and numerical foundations are tackled before the applications are discussed.

Sparse and Redundant Representations (豆瓣)
The field of sparse and redundant representation modeling has gone through a major revolution in the past two decades. This started with a series of algorithms for approximating the sparsest solutions of linear systems of equations, later to be followed by surprising theoretical results that guarantee these algorithms' performance.

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representation (sparse/redundant). The above is solved (approximated!) using a greedy algorithm - the Matching Pursuit [Mallat & Zhang (`93)]. In the past 5-10 years there has been a major progress in the field of sparse & redundant representations, and its uses. x.

Image Denoising via Learned Dictionaries and Sparse ...
Storing a sparse matrix. A matrix is typically stored as a two-dimensional array. Each entry in the array represents an element a i,j of the matrix and is accessed by the two indices i and j.Conventionally, i is the row index, numbered from top to bottom, and j is the column index, numbered from left to right. For an m × n matrix, the amount of memory required to store the matrix in this ...

Sparse matrix - Wikipedia
Sparse representations of signals have drawn considerable interest in recent years. The assumption that natural signals, such as images, admit a sparse decomposition over a redundant dictionary leads to efficient algorithms for handling such sources of data. In particular, the design of well adapted..."

Image denoising via sparse and redundant representations ...
REGISTRATION REQUESTED. Due to space limitations, please register/RSVP at /programs/srs05/rsvp.htm Due to the large number of applications for the workshop on Sparse Representation in Redundant Systems (May 9-13), we regret that RSVP is now closed to new applicants.