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Sparse Representation, Modeling and
Learning in Visual ...

Describes the latest research trends in
compressed sensing, covering sparse
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Examines sensing applications in
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And classifying frameworks
Discusses in detail the theory and
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sparse, overcomplete features. The model uses a linear encoder, and a linear decoder preceded by a sparsifying non-linearity that turns a code vector into a quasi-binary sparse code vector.

Efficient learning of sparse

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representations with an ...

Abstract We describe a novel unsupervised method for learning sparse, overcomplete features. The model uses a linear encoder, and a linear decoder preceded by a sparsifying non-linearity that turns a code vector into a quasi-binary sparse code

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The model uses a linear encoder, and
a linear decoder preceded by a
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code vector into a quasi-binary sparse

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code vector. Given an input, the optimal code minimizes the distance between the output of the decoder and the input patch while being as similar as possible to the encoder output.

Efficient learning of sparse representations with an ...

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Indeed, models play a central role in practically every task in signal and image processing and machine learning. Sparse representation theory (we shall refer to it as Sparseland) puts forward an emerging, highly effective, and universal model. Its core idea is the description of data as a

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linear combination of few atoms taken from a dictionary of such fundamental elements.

Theoretical Foundations of Deep Learning via Sparse ...

The sparse coding model \square Objective function \square The regularization term can

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be ... designing of overcomplete dictionaries for sparse representations. IEEE Transactions on Signal Processing, 54(11):4311- 4322, November 2006. □ J. Mairal, F. Bach, J. Ponce, and G. Sapiro. Online dictionary learning for sparse coding. In Proceedings of the ...

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An introduction to Sparse coding,
Sparse sensing, and ...

learning sparse representations of
data and their combinations with
sparse constraints. In the past years,
supervised learning has received great
attention, because it can be used to

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tackle a wide range of tasks, such as classification or diagnosis. However, classification is difficult due to the many variables including dimensionality and missing information.

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Methods for Learning ...

Abstract: Sparse and redundant representation modeling of data assumes an ability to describe signals as linear combinations of a few atoms from a pre-specified dictionary. As such, the choice of the dictionary that sparsifies the signals is crucial for the

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Dictionaries for Sparse Representation
Modeling - IEEE ...

Sparse approximation (also known as
sparse representation) theory deals
with sparse solutions for systems of
linear equations. Techniques for

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finding these solutions and exploiting them in applications have found wide use in image processing, signal processing, machine learning, medical imaging, and more.

Sparse approximation - Wikipedia

This unique text/reference presents a

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Comprehensive review of the state of the art in sparse representations, modeling and learning. The book examines both the theoretical foundations and details of algorithm implementation, highlighting the practical application of compressed sensing research in visual recognition

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Sparse Representation, Modeling and
Learning in Visual ...

Sparse coding is a representation
learning method which aims at finding
a sparse representation of the input
data (also known as sparse coding) in

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the form of a linear combination of basic elements as well as those basic elements themselves. These elements are called atoms and they compose a dictionary. Atoms in the dictionary are not required to be orthogonal, and they may be an over-complete ...

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Sparse dictionary learning - Wikipedia
We describe a method for learning sparse multiscale image representations using a sparse prior distribution over the basis function coefficients. The prior consists of a mixture of a Gaussian and a Dirac delta function, and thus encourages

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Learning Sparse Multiscale Image
Representations
Importantly, relying on the existing
random connectivity as random
feature detectors simplifies and
accelerates the learning process, and

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the emerging representations are efficient and sparse (16, 25, 48) without explicitly building this into the model.

Applications Advances In

Learning probabilistic neural representations with ...

Instead of learning a generative shape

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model, we incorporate shape priors on-the-fly through the Sparse Shape Composition. Specifically, a sparse set of shapes in the shape repository is selected and composed together to infer/refine an input shape. The a priori information is thus implicitly incorporated on-the-fly.

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Robust and Scalable Shape Prior Modeling via Sparse ...

Sparse representation (SR) is a parsimonious principle that a sample can be approximated by a sparse linear combination of basis vectors. Non-orthogonal basis vectors can be

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Indeed, models play a central role in practically every task in signal and image processing and machine learning. Sparse representation theory

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(we shall refer to it as Sparseland)
puts forward an emerg - ing, highly
effective, and universal model.

Theoretical Foundations of Deep In
Learning via Sparse ...

AI based on sparse modeling, on the
other hand, provides learning and

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inference extracting capabilities from a small amount of data while being explainable in a human context, but doesn't suffer from characteristics stated above and still delivers accurate results.

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