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Sparse & Redundant Representation Modeling of Images ...

Sparse & Redundant Representation Modeling of Images: Theory and Applications Michael Elad The Computer Science Department The Technion Haifa 32000, Israel Learning sparse representations for Signal Processing February 20-22, 2015, Bangalore, India The research leading to these

results has been received funding

Vardan Papyan*, Yaniv Romano*, Michael Elad March 7, 2018 ...

Convolutional Sparse Coding Vardan Papyan*, Yaniv Romano*, Michael Elad March 7, 2018 Abstract In recent years, deep learning and in particular convolutional neural networks (CNN) have led to some remarkable results in various elds In this scheme, an input signal is convolved with learned lters and a

Sparse Representations and the Basis Pursuit Algorithm

Convolutional Sparse Coding (CSC) Michael Elad The Computer-Science Department The Technion Sparseland for Image Processing Multi-Layered Convolutional Sparse Modeling Michael Elad 24 The Computer-Science Department The Technion Joint work ...

3736 IEEE TRANSACTIONS ON IMAGE PROCESSING, VOL. 15, ...

Image Denoising Via Sparse and Redundant Representations Over Learned Dictionaries Michael Elad and Michal Aharon 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

Optimally sparse representation in general

Optimally sparse representation in general (nonorthogonal) dictionaries via l_1 minimization David L Donoho†‡ and Michael Elad§ Departments of †Statistics and §Computer Science, Stanford University, Stanford, CA 94305 Contributed by David L Donoho, December 20, 2002

IEEE TRANSACTIONS ON SIGNAL PROCESSING, VOL. 54, NO. ...

K-SVD: An Algorithm for Designing Overcomplete Dictionaries for Sparse Representation Michal Aharon, Michael Elad, and Alfred Bruckstein Abstract—In recent years there has been a growing interest in the study of sparse representation of signals Using an overcomplete dictionary that contains prototype signal-atoms, signals are

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Double Sparsity: Learning Sparse Dictionaries for Sparse Signal Approximation Ron Rubinstein, Student Member, IEEE, Michael Zibulevsky, and Michael Elad, Senior Member, IEEE Abstract—An efficient and flexible dictionary structure is proposed for sparse and redundant signal representation The proposed sparse dictionary is based on a

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A Generalized Uncertainty Principle and Sparse Representation in Pairs of Bases Michael Elad and Alfred M Bruckstein Abstract— An elementary proof of a basic uncertainty principle concerning pairs of representations of vectors in different orthonormal bases is provided The result, slightly stronger than

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A Weighted Average of Sparse Representations is Better than the Sparsest One Alone/ Michael Elad and Irad Yavneh Department of Computer Science Technion {Israel Institute of Technology Technion City, Haifa 32000, Israel Email: [elad,irad]@cstechnion.ac.il Abstract Cleaning of noise from signals is a classical and long-studied problem in

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Maximal Sparsity Representation via l1 Minimization

Maximal Sparsity Representation via l1 Minimization David L Donoho and Michael Elady August 15, 2002 Abstract Finding a sparse representation of signals is desired in many applications For a representation dictionary D and a given signal S $span(D)$, we are interested in ...

Convolutional Neural Networks Jeremias Sulam, Yaniv ...

Classic Sparse Theory for Convolutional Case Theorem: Assuming 2 atoms of length 64 [Welch, 1974] Success guaranteed when [Donoho and Elad, 2003] Basis pursuit is guaranteed to recover the true sparse vector assuming that Very pessimistic!

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Cosparsity Analysis Modeling Sangnam Nam, Mike E Davies, Michael Elad, Rémi Gribonval To cite this version: The assumption that x_0 admits a sparse representation z_0 in some synthesis dictionary D is known to be of significant help, and it is now well understood that under incoherence as-

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²Michael Elad, Sparse and Redundant Representations: From Theory to Applications in Signal and Image Processing, Springer, 2010 Grading: (Tentative, as of Feb 2, 2017) 10% Attendance 40% Readings There are 7 reading assignments You are required to read the papers, and write summaries