Sparsity and its Applications

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Sparsity And Its Applications

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Sparsity And Its Applications:

Sparsity and Its Applications David J. Evans,1985-01-10 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine *Sparsity* A. Brameller,Ronald Norman Allan,Y. M. Hamam,1976 *Sparse Coding and Its Applications in Computer Vision* Zhaowen E. T. Al WANG,2015-10-28 This book provides a broader introduction to the theories and applications of sparse coding techniques in computer vision research It introduces sparse coding in the context of representation learning illustrates the fundamental concepts and summarizes the most active research directions A variety of applications of sparse coding are discussed ranging from low level image processing tasks such as super resolution and de blurring to high level semantic understanding tasks such as image recognition clustering and fusion The book is suitable to be used as an introductory overview to this field with its theoretical part being both easy and precious enough for quick understanding It is also of great value to experienced researchers as it offers new perspective to the underlying mechanism of sparse coding and points out potential future directions for different applications Sparsity Measures and their Signal Processing Applications for Machine Condition Monitoring Dong Wang,Bingchang Hou,2025-02-01 Sparsity Measures and their Signal Processing Applications for Machine Condition Monitoring presents newly designed sparsity measures and their advanced signal processing technologies for machine condition monitoring and fault diagnosis This book systematically covers new sparsity measures including a quasiarithmetic mean ratio framework for fault signatures quantification a generalized Gini index as well as classic sparsity measures based on signal processing technologies and a cycle embedded sparsity measure based on new impulsive mode decomposition technology This book additionally includes a sparsity measure data driven framework based optimized weights spectrum theory and its relevant advanced signal processing technologies Provides the background roadmaps and detailed discussion of newly designed sparsity measures and their advanced signal processing technologies for machine condition monitoring and fault diagnosis Covers new theories advanced technologies and the latest contributions in the field of machine condition monitoring and fault diagnosis Particularly focuses on newly advanced sparsity measures for fault signature quantification classic and advanced sparsity measures based signal processing technologies and sparsity measures using data driven framework based signal processing technologies Provides experimental and real world practical validation cases including newly advanced sparsity measures and their advanced signal processing technologies

Nonlinear Principal Component Analysis and Its Applications Yuichi Mori,Masahiro Kuroda,Naomichi Makino,2016-12-09 This book expounds the principle and related applications of nonlinear principal component analysis PCA which is useful method to analyze mixed measurement levels data In the part dealing with the principle after a brief introduction of ordinary PCA a PCA for categorical data nominal and ordinal is introduced as nonlinear PCA in which an optimal scaling technique is used to quantify the categorical variables The alternating least squares ALS is the main

algorithm in the method Multiple correspondence analysis MCA a special case of nonlinear PCA is also introduced All formulations in these methods are integrated in the same manner as matrix operations Because any measurement levels data can be treated consistently as numerical data and ALS is a very powerful tool for estimations the methods can be utilized in a variety of fields such as biometrics econometrics psychometrics and sociology In the applications part of the book four applications are introduced variable selection for mixed measurement levels data sparse MCA joint dimension reduction and clustering methods for categorical data and acceleration of ALS computation The variable selection methods in PCA that originally were developed for numerical data can be applied to any types of measurement levels by using nonlinear PCA Sparseness and joint dimension reduction and clustering for nonlinear data the results of recent studies are extensions obtained by the same matrix operations in nonlinear PCA Finally an acceleration algorithm is proposed to reduce the problem of computational cost in the ALS iteration in nonlinear multivariate methods This book thus presents the usefulness of nonlinear PCA which can be applied to different measurement levels data in diverse fields As well it covers the latest topics including the extension of the traditional statistical method newly proposed nonlinear methods and computational efficiency in the methods   Mathematical Analysis and its Applications P. N. Agrawal,R. N. Mohapatra,Uaday Singh,H. M. Srivastava,2015-08-22 This book discusses recent developments in and the latest research on mathematics statistics and their applications All contributing authors are eminent academics scientists researchers and scholars in their respective fields hailing from around the world The book presents roughly 60 unpublished high quality and peer reviewed research papers that cover a broad range of areas including approximation theory harmonic analysis operator theory fixed point theory functional differential equations dynamical and control systems complex analysis special functions function spaces summability theory Fourier and wavelet analysis and numerical analysis all of which are topics of great interest to the research community while further papers highlight important applications of mathematical analysis in science engineering and related areas This conference aims at bringing together experts and young researchers in mathematics from all over the world to discuss the latest advances in mathematical analysis and at promoting the exchange of ideas in various applications of mathematics in engineering physics and biology This conference encourages international collaboration and provides young researchers an opportunity to learn about the current state of the research in their respective fields   Computational Methods for General Sparse Matrices Zahari Zlatev,2013-04-17   *Compressed Sensing and Its Applications* Holger Boche,Giuseppe Caire,Robert Calderbank,Gitta Kutyniok,Rudolf Mathar,Philipp Petersen,2019-08-13 The chapters in this volume highlight the state of the art of compressed sensing and are based on talks given at the third international MATHEON conference on the same topic held from December 4 8 2017 at the Technical University in Berlin In addition to methods in compressed sensing chapters provide insights into cutting edge applications of deep learning in data science highlighting the overlapping ideas and methods that connect the fields of compressed sensing and deep learning Specific topics covered

include Quantized compressed sensing Classification Machine learning Oracle inequalities Non convex optimization Image reconstruction Statistical learning theory This volume will be a valuable resource for graduate students and researchers in the areas of mathematics computer science and engineering as well as other applied scientists exploring potential applications of compressed sensing   Graph Theory and Sparse Matrix Computation Alan George,John R. Gilbert,Joseph W.H. Liu,2012-12-06 When reality is modeled by computation matrices are often the connection between the continuous physical world and the finite algorithmic one Usually the more detailed the model the bigger the matrix the better the answer however efficiency demands that every possible advantage be exploited The articles in this volume are based on recent research on sparse matrix computations This volume looks at graph theory as it connects to linear algebra parallel computing data structures geometry and both numerical and discrete algorithms The articles are grouped into three general categories graph models of symmetric matrices and factorizations graph models of algorithms on nonsymmetric matrices and parallel sparse matrix algorithms This book will be a resource for the researcher or advanced student of either graphs or sparse matrices it will be useful to mathematicians numerical analysts and theoretical computer scientists alike   *Sparse Representation, Modeling and Learning in Visual Recognition* Hong Cheng,2015-05-25 This unique text reference presents a 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 and computer vision Topics and features describes sparse recovery approaches robust and efficient sparse representation and large scale visual recognition covers feature representation and learning sparsity induced similarity and sparse representation and learning based classifiers discusses low rank matrix approximation graphical models in compressed sensing collaborative representation based classification and high dimensional nonlinear learning includes appendices outlining additional computer programming resources and explaining the essential mathematics required to understand the book   *Practical Applications of Sparse Modeling* Irina Rish,Guillermo A. Cecchi,Aurelie Lozano,Alexandru Niculescu-Mizil,2014-09-12 Sparse modeling is a rapidly developing area at the intersection of statistical learning and signal processing motivated by the age old statistical problem of selecting a small number of predictive variables in high dimensional data sets This collection describes key approaches in sparse modeling focusing on its applications in such fields as neuroscience computational biology and computer vision Sparse modeling methods can improve the interpretability of predictive models and aid efficient recovery of high dimensional unobserved signals from a limited number of measurements Yet despite significant advances in the field a number of open issues remain when sparse modeling meets real life applications The book discusses a range of practical applications and state of the art approaches for tackling the challenges presented by these applications Topics considered include the choice of method in genomics applications analysis of protein mass spectrometry data the stability of sparse models in brain imaging applications sequential testing approaches

algorithmic aspects of sparse recovery and learning sparse latent models Jacket   **Sparse Matrices** Tewarson,1973-05-11 Sparse Matrices   **Active Lighting and Its Application for Computer Vision** Katsushi Ikeuchi,Yasuyuki Matsushita,Ryusuke Sagawa,Hiroshi Kawasaki,Yasuhiro Mukaigawa,Ryo Furukawa,Daisuke Miyazaki,2020-09-07 This book describes active illumination techniques in computer vision We can classify computer vision techniques into two classes passive and active techniques Passive techniques observe the scene statically and analyse it as is Active techniques give the scene some actions and try to facilitate the analysis In particular active illumination techniques project specific light for which the characteristics are known beforehand to a target scene to enable stable and accurate analysis of the scene Traditional passive techniques have a fundamental limitation The external world surrounding us is three dimensional the image projected on a retina or an imaging device is two dimensional That is reduction of one dimension has occurred Active illumination techniques compensate for the dimensional reduction by actively controlling the illumination The demand for reliable vision sensors is rapidly increasing in many application areas such as robotics and medical image analysis This book explains this new endeavour to explore the augmentation of reduced dimensions in computer vision This book consists of three parts basic concepts techniques and applications The first part explains the basic concepts for understanding active illumination techniques In particular the basic concepts of optics are explained so that researchers and engineers outside the field can understand the later chapters The second part explains currently available active illumination techniques covering many techniques developed by the authors The final part shows how such active illumination techniques can be applied to various domains describing the issue to be overcome by active illumination techniques and the advantages of using these techniques This book is primarily aimed at 4th year undergraduate and 1st year graduate students and will also help engineers from fields beyond computer vision to use active illumination techniques Additionally the book is suitable as course material for technical seminars   The Sparse Fourier Transform Haitham Hassanieh,2018-02-27 The Fourier transform is one of the most fundamental tools for computing the frequency representation of signals It plays a central role in signal processing communications audio and video compression medical imaging genomics astronomy as well as many other areas Because of its widespread use fast algorithms for computing the Fourier transform can benefit a large number of applications The fastest algorithm for computing the Fourier transform is the Fast Fourier Transform FFT which runs in near linear time making it an indispensable tool for many applications However today the runtime of the FFT algorithm is no longer fast enough especially for big data problems where each dataset can be few terabytes Hence faster algorithms that run in sublinear time i e do not even sample all the data points have become necessary This book addresses the above problem by developing the Sparse Fourier Transform algorithms and building practical systems that use these algorithms to solve key problems in six different applications wireless networks mobile systems computer graphics medical imaging biochemistry and digital circuits This is a revised version of the thesis that won the 2016 ACM Doctoral Dissertation Award   Sparse

Modeling Irina Rish,Genady Grabarnik,2014-12-01 Sparse models are particularly useful in scientific applications such as biomarker discovery in genetic or neuroimaging data where the interpretability of a predictive model is essential Sparsity can also dramatically improve the cost efficiency of signal processing Sparse Modeling Theory Algorithms and Applications provides an introduction t **Direct Methods for Sparse Matrices** Iain S. Duff,A. M. Erisman,John Ker Reid,2017 The subject of sparse matrices has its root in such diverse fields as management science power systems analysis surveying circuit theory and structural analysis Efficient use of sparsity is a key to solving large problems in many fields This book provides both insight and answers for those attempting to solve these problems **Advances of New Technologies in Seismic Exploration** Shaoping Lu,Sanyi Yuan,Lingyun Qiu,Xiang Li,Tie Zhong,Xintong Dong ,Peng Guo,2025-10-01 In the past few decades the geophysics community has proposed a large number of new technologies for seismic exploration to meet the needs of high resolution subsurface imaging These new technologies have made great contributions to advances in seismic exploration and structural geology For instance the appearance of distributed optical fiber acoustic sensing DAS makes it possible to acquire seismic data with high spatial resolution at low cost Advances have been made in full waveform inversion FWI and it is now considered the most robust approach for the reconstruction of subsurface velocity models Multiples which were originally regarded as a common noise are now applied to seismic imaging and accordingly provide extra illumination and least square migration LSM greatly improves illumination and resolution of seismic imaging Deep learning especially the convolutional neural network CNN has shown remarkable performance in seismic noise attenuation interpolation velocity model reconstruction arrival time picking and interpretation Although these new technologies have solved certain real world geophysical issues they still have the following limitations Firstly fiber system noise reduces the quality of seismic data received by DAS restricting its further applications Secondly slow convergence rate and huge computational cost are main bottlenecks faced by iterative seismic inversion approaches such as LSM and FWI Moreover the cycle skipping problem is still a challenging issue in FWI Thirdly the weak generalization of trained models needs to be addressed before deep learning can be implemented widely to solve real world problems Forthly the solution of the anisotropic elastic wave equation needs to be improved for its applications in practice **Artificial Intelligence, Evolutionary Computing and Metaheuristics** Xin-She Yang,2012-07-27 Alan Turing pioneered many research areas such as artificial intelligence computability heuristics and pattern formation Nowadays at the information age it is hard to imagine how the world would be without computers and the Internet Without Turing s work especially the core concept of Turing Machine at the heart of every computer mobile phone and microchip today so many things on which we are so dependent would be impossible 2012 is the Alan Turing year a centenary celebration of the life and work of Alan Turing To celebrate Turing s legacy and follow the footsteps of this brilliant mind we take this golden opportunity to review the latest developments in areas of artificial intelligence evolutionary computation and metaheuristics and all these areas can be traced back to Turing s pioneer work Topics include Turing test

Turing machine artificial intelligence cryptography software testing image processing neural networks nature inspired algorithms such as bat algorithm and cuckoo search and multiobjective optimization and many applications These reviews and chapters not only provide a timely snapshot of the state of art developments but also provide inspiration for young researchers to carry out potentially ground breaking research in the active diverse research areas in artificial intelligence cryptography machine learning evolutionary computation and nature inspired metaheuristics This edited book can serve as a timely reference for graduates researchers and engineers in artificial intelligence computer sciences computational intelligence soft computing optimization and applied sciences **Sparse Solutions of Underdetermined Linear Systems and Their Applications** Ming-Jun Lai,Yang Wang,2021-06-25 This textbook presents a special solution to underdetermined linear systems where the number of nonzero entries in the solution is very small compared to the total number of entries This is called a sparse solution Since underdetermined linear systems can be very different the authors explain how to compute a sparse solution using many approaches Sparse Solutions of Underdetermined Linear Systems and Their Applications contains 64 algorithms for finding sparse solutions of underdetermined linear systems and their applications for matrix completion graph clustering and phase retrieval and provides a detailed explanation of these algorithms including derivations and convergence analysis Exercises for each chapter help readers understand the material This textbook is appropriate for graduate students in math and applied math computer science statistics data science and engineering Advisors and postdoctoral scholars will also find the book interesting and useful **Algorithms for Sparse Linear Systems** Jennifer Scott,Miroslav Tůma,2023-04-29 Large sparse linear systems of equations are ubiquitous in science engineering and beyond This open access monograph focuses on factorization algorithms for solving such systems It presents classical techniques for complete factorizations that are used in sparse direct methods and discusses the computation of approximate direct and inverse factorizations that are key to constructing general purpose algebraic preconditioners for iterative solvers A unified framework is used that emphasizes the underlying sparsity structures and highlights the importance of understanding sparse direct methods when developing algebraic preconditioners Theoretical results are complemented by sparse matrix algorithm outlines This monograph is aimed at students of applied mathematics and scientific computing as well as computational scientists and software developers who are interested in understanding the theory and algorithms needed to tackle sparse systems It is assumed that the reader has completed a basic course in linear algebra and numerical mathematics

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