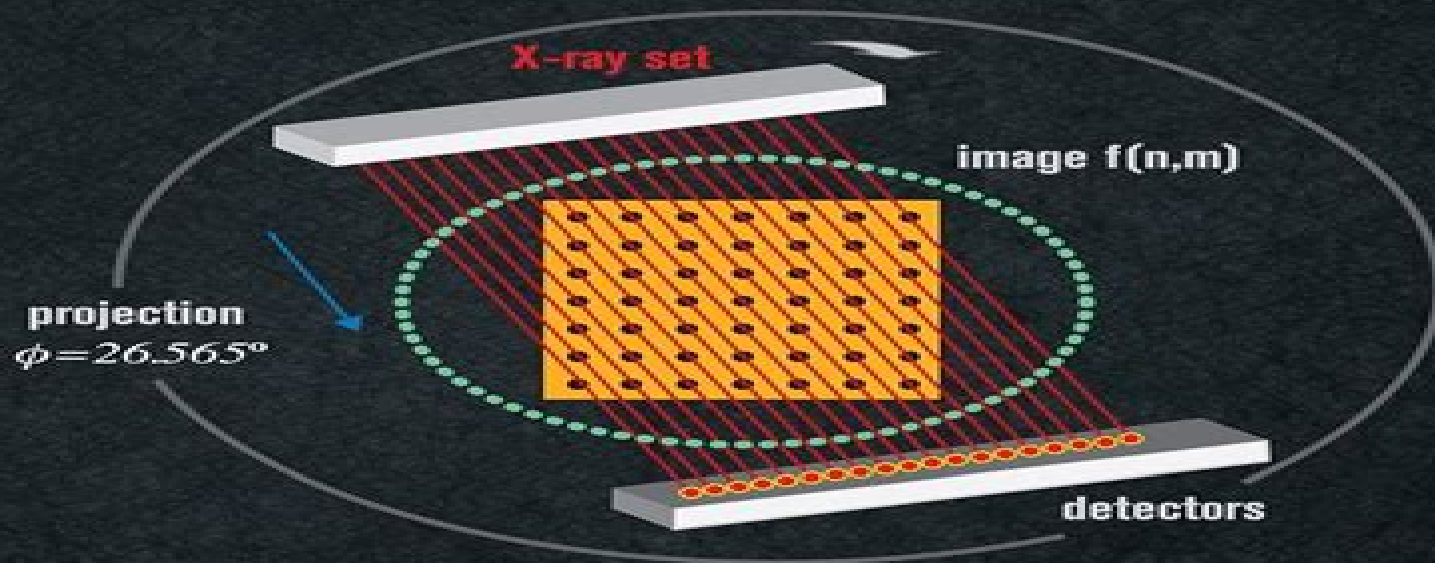


Image Processing

Tensor Transform and Discrete Tomography with MATLAB®



Artyom M. Grigoryan ■ Merughan M. Grigoryan

Image Processing Tensor Transform And Discrete Tomography With Matlab

Kendell T.



Image Processing Tensor Transform And Discrete Tomography With Matlab:

Image Processing Artyom M. Grigoryan, Merughan M. Grigoryan, 2018-09-03 Focusing on mathematical methods in computer tomography Image Processing Tensor Transform and Discrete Tomography with MATLAB introduces novel approaches to help in solving the problem of image reconstruction on the Cartesian lattice. Specifically, it discusses methods of image processing along parallel rays to more quickly and accurately reconstruct images from a finite number of projections, thereby avoiding overirradiation of the body during a computed tomography CT scan. The book presents several new ideas, concepts, and methods, many of which have not been published elsewhere. New concepts include methods of transferring the geometry of rays from the plane to the Cartesian lattice, the point map of projections, the particle and its field function, and the statistical model of averaging. The authors supply numerous examples, MATLAB-based programs, end-of-chapter problems, and experimental results of implementation. The main approach for image reconstruction proposed by the authors differs from existing methods of back projection, iterative reconstruction, and Fourier and Radon filtering. In this book, the authors explain how to process each projection by a system of linear equations or linear convolutions to calculate the corresponding part of the 2-D tensor or paired transform of the discrete image. They then describe how to calculate the inverse transform to obtain the reconstruction. The proposed models for image reconstruction from projections are simple and result in more accurate reconstructions. Introducing a new theory and methods of image reconstruction, this book provides a solid grounding for those interested in further research and in obtaining new results. It encourages readers to develop effective applications of these methods in CT.

Image Processing Artyom Grigoryan, 2013 The book is devoted to the problem of image reconstruction from a finite number of projections. It describes in detail 2-D discrete Fourier transform, including properties, fast algorithms, and applications of Fourier transform methods in image processing. It also presents traditional methods of 2D computerized tomography, including Fourier transform-based methods of filtered back projection and algebraic methods. The text shows readers new approaches and new forms of image representation which can be used effectively in image processing and computerized tomography. All solutions of the image reconstruction problem are accomplished with examples and MATLAB-based codes.

IMAGE PROCESSING ARTYOM M. GRIGORYAN, MERUGHAN M. GRIGORYAN (MERUGHAN M.), 2023

Image Processing Artyom Grigoryan, Merughan Grigoryan, 2018 Focusing on mathematical methods in computer tomography Image Processing Tensor Transform and Discrete Tomography with MATLAB introduces novel approaches to help in solving the problem of image reconstruction on the Cartesian lattice. Specifically, it discusses methods of image processing along parallel rays to more quickly and accurately reconstruct images from a finite number of projections, thereby avoiding overirradiation of the body during a computed tomography CT scan. The book presents several new ideas, concepts, and methods, many of which have not been published elsewhere. New concepts include methods of transferring the geometry of rays from the plane to the Cartesian lattice, the point map of projections, the particle and its field

function and the statistical model of averaging The authors supply numerous examples MATLAB based programs end of chapter problems and experimental results of implementation The main approach for image reconstruction proposed by the authors differs from existing methods of back projection iterative reconstruction and Fourier and Radon filtering In this book the authors explain how to process each projection by a system of linear equations or linear convolutions to calculate the corresponding part of the 2 D tensor or paired transform of the discrete image They then describe how to calculate the inverse transform to obtain the reconstruction The proposed models for image reconstruction from projections are simple and result in more accurate reconstructions Introducing a new theory and methods of image reconstruction this book provides a solid grounding for those interested in further research and in obtaining new results It encourages readers to develop effective applications of these methods in CT

Introduction to Imaging from Scattered Fields Michael A Fiddy,R. Shane Ritter,2014-11-10 Obtain the Best Estimate of a Strongly Scattering Object from Limited Scattered Field Data Introduction to Imaging from Scattered Fields presents an overview of the challenging problem of determining information about an object from measurements of the field scattered from that object It covers widely used approaches to recover information about the objects and examines the assumptions made a priori about the object and the consequences of recovering object information from limited numbers of noisy measurements of the scattered fields The book explores the strengths and weaknesses of using inverse methods for weak scattering These methods including Fourier based signal and image processing techniques allow more straightforward inverse algorithms to be exploited based on a simple mapping of scattered field data The authors also discuss their recent approach based on a nonlinear filtering step in the inverse algorithm They illustrate how to use this algorithm through numerous two dimensional electromagnetic scattering examples MATLAB code is provided to help readers quickly apply the approach to a wide variety of inverse scattering problems In later chapters of the book the authors focus on important and often forgotten overarching constraints associated with exploiting inverse scattering algorithms They explain how the number of degrees of freedom associated with any given scattering experiment can be found and how this allows one to specify a minimum number of data that should be measured They also describe how the prior discrete Fourier transform PDFT algorithm helps in estimating the properties of an object from scattered field measurements The PDFT restores stability and improves estimates of the object even with severely limited data provided it is sufficient to meet a criterion based on the number of degrees of freedom

Tensor Transform Based Method of Image Reconstruction by Projections Nan Du,2013 Methods of the Fourier transform are widely used for practical applications of image reconstruction from projections such as the computerized tomography We mention the well known methods of back projection and methods based on the Fourier slice theorem which requires a crude interpolation when transforming the Fourier projections from the polar grid to the traditional Cartesian grid The solution of this complex problem is very important in medical diagnoses where projections data for reconstructing two and three dimensional images

are obtained by means of the roentgen radiation with an investigated part of the body. In this work we analyze solutions of the problem of reconstruction of the discrete image on the Cartesian grid from projections of the image on the spatial domain which are based on the concept of the two dimensional discrete tensor transformation. In the framework of the constructed model we show a way of using the line integrals of the image or real projections data for exact reconstructing the discrete image. The model of image reconstruction proposed in this research is described for the cases when the size of the Cartesian grid are primes and power of two. The problem we focus on is formulated as follows: For a given image $f(x, y)$ on the bounded region such as the square $[0, 1] \times [0, 1]$ and the $N \times N$ Cartesian grid placed on the region reconstruct exactly the discrete image f_m from the line integrals of the image $f(x, y)$ calculated in a finite number of projections. The solution of this problem is based on the new approach proposed by Grigoryan which allows to transfer uniquely the geometry of the projections from the image plane to the geometry of projections onto the Cartesian grid. This transformation allows calculating the tensor representation of the discrete image where the image is described by one dimensional splitting signals carrying the spectral information about the image at frequency points of different subsets covering the Cartesian lattice. When the size of the image is a power of two these subsets are intersected and this property can be used effectively for solution of the well known problem of image reconstruction from limited angle range projections. Our preliminary results show that the proposed method of reconstruction is more accurate than the known projections onto convex sets algorithm. In addition the simulations of our algorithm demonstrate good reconstructions when the projections are within a limited angular range. The proposed method of image reconstruction is robust relative to the additive signal independent noise in projection data.

Discrete Tomography Gabor T. Herman, Attila Kuba, 1999-11. Goals of the Book: Over the last thirty years there has been a revolution in diagnostic radiology as a result of the emergence of computerized tomography (CT) which is the process of obtaining the density distribution within the human body from multiple x-ray projections. Since an enormous variety of possible density values may occur in the body a large number of projections are necessary to ensure the accurate reconstruction of their distribution. There are other situations in which we desire to reconstruct an object from its projections but in which we know that the object to be reconstructed has only a small number of possible values. For example a large fraction of objects scanned in industrial CT for the purpose of nondestructive testing or reverse engineering are made of a single material and so the ideal reconstruction should contain only two values: zero for air and the value associated with the material composing the object. Similar assumptions may even be made for some specific medical applications: for example in angiography of the heart chambers the value is either zero indicating the absence of dye or the value associated with the dye in the chamber. Another example arises in the electron microscopy of biological macromolecules where we may assume that the object to be reconstructed is composed of ice, protein and RNA. One can also apply electron microscopy to determine the presence or absence of atoms in crystalline structures which is again a two valued situation.

Image Processing in Optical

Coherence Tomography Using Matlab Robert Koprowski, Zygmunt Wróbel, 2011 This book covers the results of the creation of methods for ophthalmologists support in OCT images automated analysis These methods like the application developed on their basis are used during routine examinations carried out in hospital The monograph comprises proposals of new and also of known algorithms modified by authors for image analysis and processing presented on the basis of example of Matlab environment with Image Processing tools The results are not only obtained fully automatically but also repeatable providing doctors with quantitative information on the degree of pathology occurring in the patient In this case the anterior and posterior eye segment is analysed e g the measurement of the filtration angle or individual layers thickness To introduce the Readers to subtleties related to the implementation of selected fragments of algorithms the notation of some of them in the Matlab environment has been given The presented source code is shown only in the form of example of implementable selected algorithm In no way we impose here the method of resolution on the Reader and we only provide the confirmation of a possibility of its practical implementation Advances in Discrete Tomography and Its Applications Gabor T.

Herman, Attila Kuba, 2008-01-19 The book provides a unified presentation of new methods algorithms and select applications that are the foundations of multidimensional image construction and reconstruction The self contained survey chapters written by leading mathematicians engineers and computer scientists present cutting edge research and results in the field Three main areas are covered theoretical results algorithms and practical applications Following an historical and introductory overview of the field the book explores the various mathematical and computational problems of discrete tomography with an emphasis on new applications Analyzing and Enhancing Images with MATLAB Kendell T., 2016-10-28

This book describes functions that support range of standard image processing operations for analyzing and enhancing The content include Getting Information about Image Pixel Values and Image Statistics Analyzing Images Analyzing the Texture of an Image Adjusting Pixel Intensity Values Removing Noise from Images ROI Processing Colors Neighborhood and Block Operations Code Generation for Image Processing Toolbox Functions GPU Computing Fourier Transform Discrete Cosine Transform Radon Transform The Inverse Radon Transformation Fan Beam Projection Data **Multiscale Transforms with**

Application to Image Processing Aparna Vyas, Soohwan Yu, Joonki Paik, 2017-12-05 This book provides an introduction to image processing an overview of the transforms which are most widely used in the field of image processing and an introduction to the application of multiscale transforms in image processing The book is divided into three parts with the first part offering the reader a basic introduction to image processing The second part of the book starts with a chapter on Fourier analysis and Fourier transforms wavelet analysis and ends with a chapter on new multiscale transforms The final part of the book deals with all of the most important applications of multiscale transforms in image processing The chapters consist of both tutorial and highly advanced material and as such the book is intended to be a reference text for graduate students and researchers to obtain state of the art knowledge on specific applications The technique of solving problems in

the transform domain is common in applied mathematics and widely used in research and industry but is a somewhat neglected subject within the undergraduate curriculum It is hoped that faculty can use this book to create a course that can be offered early in the curriculum and fill this void Also the book is intended to be used as a reference manual for scientists who are engaged in image processing research developers of image processing hardware and software systems and practising engineers and scientists who use image processing as a tool in their applications

Fundamentals of Computerized Tomography Gabor T. Herman, 2009-07-14 This revised and updated second edition now with two new chapters is the only book to give a comprehensive overview of computer algorithms for image reconstruction It covers the fundamentals of computerized tomography including all the computational and mathematical procedures underlying data collection image reconstruction and image display Among the new topics covered are spiral CT fully 3D positron emission tomography the linogram mode of backprojection and state of the art 3D imaging results It also includes two new chapters on comparative statistical evaluation of the 2D reconstruction algorithms and alternative approaches to image reconstruction

Regularized Image Reconstruction in Parallel MRI with MATLAB Joseph Suresh Paul, Raji Susan Mathew, 2019-11-05 Regularization becomes an integral part of the reconstruction process in accelerated parallel magnetic resonance imaging pMRI due to the need for utilizing the most discriminative information in the form of parsimonious models to generate high quality images with reduced noise and artifacts Apart from providing a detailed overview and implementation details of various pMRI reconstruction methods Regularized image reconstruction in parallel MRI with MATLAB examples interprets regularized image reconstruction in pMRI as a means to effectively control the balance between two specific types of error signals to either improve the accuracy in estimation of missing samples or speed up the estimation process The first type corresponds to the modeling error between acquired and their estimated values The second type arises due to the perturbation of k space values in autocalibration methods or sparse approximation in the compressed sensing based reconstruction model Features Provides details for optimizing regularization parameters in each type of reconstruction Presents comparison of regularization approaches for each type of pMRI reconstruction Includes discussion of case studies using clinically acquired data MATLAB codes are provided for each reconstruction type Contains method wise description of adapting regularization to optimize speed and accuracy This book serves as a reference material for researchers and students involved in development of pMRI reconstruction methods Industry practitioners concerned with how to apply regularization in pMRI reconstruction will find this book most useful

The Mathematics of Computerized Tomography Frank Natterer, 1986-01-01 This book provides a unified view of tomographic techniques a common mathematical framework and an in depth treatment of reconstruction algorithms It focuses on the reconstruction of a function from line or plane integrals with special emphasis on applications in radiology science and engineering The Mathematics of Computerized Tomography covers the relevant mathematical theory of the Radon transform and related

transforms and also studies more practical questions such as stability sampling resolution and accuracy Quite a bit of attention is given to the derivation analysis and practical examination of reconstruction algorithms for both standard problems and problems with incomplete data Audience applied mathematicians physicists and engineers working in image reconstruction

Local Structure Tensor for Multidimensional Signal Processing Raúl San José Estépar, 2007 Feature extraction and particularly orientation estimation of multidimensional images is of paramount importance for the Image Processing and Computer Vision communities This dissertation focuses on this topic specifically we deal with the problem of local structure tensor LST estimation as a mean of characterizing the local behavior of a multidimensional signal The LST can be seen as a measure of the uncertainty of a multidimensional signal with respect to a given orientation LST estimation can be achieved by estimating the local energy of a signal in different orientations Then the LST is computed as a linear combination of the local energy for each orientation with a tensor basis whose elements are calculated for each orientation This kind of methods for the estimation of the LST are based on quadrature filters to obtain the local energy of the signal While the LST based on quadrature filters is well defined for signals that vary locally only in one orientation simple signals the estimation method fails with complex signals i e signals that consist of several differently oriented simple signals In this dissertation an analytical study of the distortions of the tensor eigenvalues due to such complex neighborhoods is carried out From this analytical study two constructive methods are proposed for the estimation of the LST The first method is based on a maximum likelihood estimation of the quadrature filter outputs The second method uses a measure of phase consistency based on generalized quadrature filters which are formally derived from an extension of the analytic signal to multidimensional signals known as the monogenic signal The interpretation of a multidimensional image as a function graph i e a Riemannian manifold instead of just intensity variations on the Euclidean space has important implications that are exploited in this dissertation Image processing tasks can then be performed by solving partial differential equations on the Riemannian manifold In this dissertation Riemannian geometry is used to study the evolution of fronts under mean curvature flow on a Riemannian manifold using a level set framework For our purposes the Riemannian manifold is defined by the induced metric of the image that is related to the LST The Riemannian mean curvature flow is the theoretical basis for the definition of a level set segmentation method The methods proposed in this dissertation are applied to two medical image applications The first consists in a freehand 3D ultrasound reconstruction technique that uses the LST to perform an adaptive interpolation based on normalized convolution Our results show that our method outperforms traditional technique for this interpolation problem The second application uses the level set method based on Riemannian mean curvature flow to segment anatomical structures in dataset from magnetic resonance imaging MRI computed tomography CT and ultrasound US This novel method reveals as a feasible approach to medical image segmentation

Image Processing Recipes in MATLAB Oge Marques, Gustavo Benvenuti Borba, 2024 Leveraging the latest developments in MATLAB and its image

processing toolbox this cookbook is a collection of 30 practical recipes for image processing ranging from foundational techniques to recently published algorithms Presented in a clear and meaningful sequence these recipes are prepared with the reader in mind allowing one to focus on particular topics or read as a whole from cover to cover Key Features A practical user friendly guide that equips researchers and practitioners with the tools to implement efficient image processing workflows in MATLAB Each recipe is presented through clear step by step instructions and rich visual examples Each recipe contains its own source code explanations and figures making the book an excellent standalone resource for quick reference Strategically structured to aid sequential learning yet with self contained chapters for those seeking solutions to specific image processing challenges The book serves as a concise and readable practical reference to deploy image processing pipelines in MATLAB quickly and efficiently With its accessible and practical approach the book is a valuable guide for those who navigate this evolving area including researchers students developers and practitioners in the fields of image processing computer vision and image analysis

New Developments in the Visualization and Processing of Tensor Fields David H. Laidlaw, Anna Vilanova, 2012-09-14 Bringing together key researchers in disciplines ranging from visualization and image processing to applications in structural mechanics fluid dynamics elastography and numerical mathematics the workshop that generated this edited volume was the third in the successful Dagstuhl series Its aim reflected in the quality and relevance of the papers presented was to foster collaboration and fresh lines of inquiry in the analysis and visualization of tensor fields which offer a concise model for numerous physical phenomena Despite their utility there remains a dearth of methods for studying all but the simplest ones a shortage the workshops aim to address Documenting the latest progress and open research questions in tensor field analysis the chapters reflect the excitement and inspiration generated by this latest Dagstuhl workshop held in July 2009 The topics they address range from applications of the analysis of tensor fields to purer research into their mathematical and analytical properties They show how cooperation and the sharing of ideas and data between those engaged in pure and applied research can open new vistas in the study of tensor fields

Mathematical Aspects of Computerized Tomography G.T. Herman, F. Natterer, 2013-03-12 G T Herman F Natterer Universitat des Saarlandes Medical Image Processing Group Department of Computer Science Angewandte Mathematik und State University of New York at Informatik 66 Saarbrücken Buffalo Germany 4226 Ridge Lea Road Amherst N Y 14226 USA In August 1978 we have attended a working conference on Computer Aided Tomography and Ultrasonics in Medicine which was held in Haifa Israel under the auspices of the International Federation for Information Processing 1 That meeting in common with other meetings relating to computerized tomography concentrated on the physical engineering and clinical aspects of the topic with little attention paid to the underlying mathematics and no attention paid to recent developments in mathematics inspired by computerized tomography although not necessarily useful for computerized tomography We both felt that it would be worthwhile to organize a meeting of mathematicians which would concentrate on the mathematical aspects of

computerized tomography This volume and the meeting on which it is based is the outcome of our decision in August 1978 to attempt to bring together such a meeting In the meantime much has been published on the topic of computerized tomography Advanced Image and Video Processing Using MATLAB Shengrong Gong, Chunping Liu, Yi Ji, Baojiang Zhong, Yonggang Li, Husheng Dong, 2018-09-03 This book offers a comprehensive introduction to advanced methods for image and video analysis and processing It covers deraining dehazing inpainting fusion watermarking and stitching It describes techniques for face and lip recognition facial expression recognition lip reading in videos moving object tracking dynamic scene classification among others The book combines the latest machine learning methods with computer vision applications covering topics such as event recognition based on deep learning dynamic scene classification based on topic model person re identification based on metric learning and behavior analysis It also offers a systematic introduction to image evaluation criteria showing how to use them in different experimental contexts The book offers an example based practical guide to researchers professionals and graduate students dealing with advanced problems in image analysis and computer vision

Visualization and Processing of Tensor Fields David H. Laidlaw, Joachim Weickert, 2009-03-30 This book provides researchers an inspirational look at how to process and visualize complicated 2D and 3D images known as tensor fields With numerous color figures it details both the underlying mathematics and the applications of tensor fields

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