R. Tolimieri - M. An - C. Lu

Mathematics of Multidimensional Fourier Transform Algorithms



<u>Mathematics Of Multidimensional Fourier Transform</u> <u>Algorithms</u>

Teo Mora

Mathematics of Multidimensional Fourier Transform Algorithms Richard Tolimieri, Myoung An, Chao Lu, 2012-12-06 The Fourier transform of large multidimensional data sets is an essen tial computation in many scientific and engineering fields including seismology X ray crystallography radar sonar and medical imaging Such fields require multidimensional arrays for complete and faithful modelling Classically a set of data is processed one dimension at a time permitting control over the size of the computation and calling on well established I dimensional programs The rapidly increasing availability of powerful computing chips vector processors multinode boards and parallel machines has provided new tools for carrying out multidimensional computations Multidimensional processing offers a wider range of possible implementations as compared to I dimensional the greater flexibility of movement in the data in processing due to dexing set This increased freedom along with the massive size data sets typically found in multidimensional applications places intensive demands on the communication aspects of the computation The writ ing of code that takes into account all the algorithmic possibilities and matches these possibilities to the communication capabilities of the tar get architecture is an extremely time consuming task A major goal of this text is to provide a sufficiently abstra

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Richard Tolimieri, Myoung An, Chao Lu, 2012-12-06 Fourier transforms of large multidimensional data sets arise in many fields ranging from seismology to medical imaging The rapidly increasing power of computer chips the increased availability of vector and array processors and the increasing size of the data sets to be analyzed make it both possible and necessary to analyze the data more than one dimension at a time The increased freedom provided by multidimensional processing however also places intesive demands on the communication aspects of the computation making it difficult to write code that takes all the algorithmic possiblities into account and matches these to the target architecture This book develops algorithms for multi dimensional Fourier transforms that yield highly efficient code on a variety of vector and parallel computers By emphasizing the unified basis for the many approaches to one dimensional and multidimensional Fourier transforms this book not only clarifies the fundamental similarities but also shows how to exploit the differences in optimizing implementations This book will be of interest not only to applied mathematicians and computer scientists but also to seismologists high energy physicists crystallographers and electrical engineers working on signal and image processing Topics covered include tensor products and the fast Fourier transform finite Abelian groups and their Fourier transforms Cooley Tukey and Good Thomas algorithms lines and planes reduced transform algorithms field algorithms implementation on Risc and parallel Computational Frameworks for the Fast Fourier Transform Charles Van Loan, 1992-01-01 The most comprehensive treatment of FFTs to date Van Loan captures the interplay between mathematics and the design of

effective numerical algorithms a critical connection as more advanced machines become available A stylized Matlab notation

which is familiar to those engaged in high performance computing is used The Fast Fourier Transform FFT family of algorithms has revolutionized many areas of scientific computation. The FFT is one of the most widely used algorithms in science and engineering with applications in almost every discipline This volume is essential for professionals interested in linear algebra as well as those working with numerical methods The FFT is also a great vehicle for teaching key aspects of scientific computing Fast Fourier Transforms C. Sidney Burrus, 2012-11-30 This book uses an index map a polynomial decomposition an operator factorization and a conversion to a filter to develop a very general and efficient description of fast algorithms to calculate the discrete Fourier transform DFT The work of Winograd is outlined chapters by Selesnick Pueschel and Johnson are included and computer programs are provided Fast Fourier Transform and Convolution Algorithms Henri J. Nussbaumer, 2012-12-06 In the first edition of this book we covered in Chapter 6 and 7 the applications to multidimensional convolutions and DFT s of the transforms which we have introduced back in 1977 and called polynomial transforms Since the publication of the first edition of this book several important new developments concerning the polynomial transforms have taken place and we have included in this edition a discussion of the relationship between DFT and convolution polynomial transform algorithms This material is covered in Appendix A along with a presentation of new convolution polynomial transform algorithms and with the application of polynomial transforms to the computation of multidimensional cosine transforms We have found that the short convolution and polynomial product algorithms of Chap 3 have been used extensively This prompted us to include in this edition several new one dimensional and two dimensional polynomial product algorithms which are listed in Appendix B Since our book is being used as part of several graduate level courses taught at various universities we have added to this edition a set of problems which cover Chaps 2 to 8 Some of these problems serve also to illustrate some research work on DFT and convolution algorithms I am indebted to Mrs A Schlageter who prepared the manuscript of this second edition Lausanne HENRI J NUSSBAUMER April 1982 Preface to the First Edition This book presents in a unified way the various fast algorithms that are used for the implementation of digital filters and the evaluation of discrete Fourier transforms Twentieth Century Harmonic Analysis J.S. Byrnes, 2012-12-06 Almost a century ago harmonic analysis entered a still continuing Golden Age with the emergence of many great masters throughout Europe They created a wealth of profound analytic methods to be successfully exploited and further developed by succeeding generations This flourishing of harmonic analysis is today as lively as ever as the papers presented here demonstrate In addition to its own ongoing internal development and its basic role in other areas of mathematics physics and chemistry financial analysis medicine and biological signal processing harmonic analysis has made fundamental contributions to essentially all twentieth century technology based human endeavours including telephone radio television radar sonar satellite communications medical imaging the Internet and multimedia This ubiquitous nature of the subject is amply illustrated The book not only promotes the infusion of new mathematical tools into applied harmonic analysis but also to fuel

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Introduction to Algorithms, third edition Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein, 2009-07-31 The latest edition of the essential text and professional reference with substantial new material on such topics as vEB trees multithreaded algorithms dynamic programming and edge based flow Some books on algorithms are rigorous but incomplete others cover masses of material but lack rigor Introduction to Algorithms uniquely combines rigor and comprehensiveness The book covers a broad range of algorithms in depth yet makes their design and analysis accessible to all levels of readers Each chapter is relatively self contained and can be used as a unit of study The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor The first edition became a widely used text in universities worldwide as well as the standard reference for professionals The second edition featured new chapters on the role of algorithms probabilistic analysis and randomized algorithms and linear programming The third edition has been revised and updated throughout It includes two completely new chapters on van Emde Boas trees and multithreaded algorithms substantial additions to the chapter on recurrence now called Divide and Conquer and an appendix on matrices It features improved treatment of dynamic programming and greedy algorithms and a new notion of edge based flow in the material on flow networks Many exercises and problems have been added for this edition The international paperback edition is no longer available the hardcover is available worldwide **Fast Algorithms for Signal Processing** Richard E. Blahut, 2010-06-24 Efficient signal processing algorithms are important for embedded and power limited applications since by reducing the number of computations power consumption can be reduced significantly Similarly efficient algorithms are also critical to very large scale applications such as video processing and four dimensional medical imaging This self contained guide the only one of its kind enables engineers to find the optimum fast algorithm for a specific application It presents a broad range of computationally efficient algorithms describes their structure and implementation and compares their relative strengths for given problems All the necessary background mathematics is included and theorems are rigorously proved so all the information needed to learn and apply the techniques is provided in one convenient guide With this practical reference researchers and practitioners in electrical engineering applied mathematics and computer science can reduce power dissipation for low end applications of signal processing and extend the reach of high end applications Introduction To Algorithms Thomas H Cormen, Charles E Leiserson, Ronald L Rivest, Clifford Stein, 2001 An extensively revised edition of a mathematically rigorous yet accessible introduction to algorithms

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structure determination crystallographic computing crystal physics and other fields of crystallographic research Graduate students specializing in crystallography will find much material suitable for self study and a rich source of references to the relevant literature Data Modeling for Metrology and Testing in Measurement Science Franco Pavese, Alistair B. Forbes, 2008-12-16 The aim of this book is to provide rstly an introduction to probability and statistics especially directed to the metrology and testing elds and secondly a comprehensive newer set of modelling methods for data and uncertainty analysis that are generally not considered yet within mainstream methods. The book brings for the rst time a coherent account of these newer me ods and their computational implementation They are potentially important because they address problems in application elds where the usual hypot ses that are at the basis of most of the traditional statistical and probabilistic methods for example relating to normality of the probability distributions are frequently not ful lled to such an extent that an accurate treatment of the calibration or test data using standard approaches is not possible Additi ally the methods can represent alternative ways of data analysis allowing a deeper understanding of complex situations in measurement The book lends itself as a possible textbook for undergraduate or postgraduate study in an area where existing texts focus mainly on the most common and well known methods that do not encompass modern approaches to calibration and testing problems The book is structured in such a way to guide readers with only a g eral interest in measurement issues through a series of review papers from an initial introduction to modelling principles in metrology and testing to the basic principles of probability in metrology and statistical approaches to certainty assessment Multivariate Approximation Theory IV CHUI, SCHEMP, ZELLER, 2013-03-08 Multivariate Approximation Theory forms a rapidly evolving field in Applied Mathematics The reason for its particular current interest lies in its impact on Computer Aided Geometric Design CAGD Image Processing Pattern Recognition and Multidimensional Signal Processing Multivariate Bernstein polynomials and box splines for example play an important role in CAGD Conversely the highly important filter bank design problem of signal processing for instance gives rise to a new family of multivariate approximating functions the Gabor wavelets with interesting technological and biological applications The conferences on Multivariate Approximation Theory held at the Mathematical Research Institute at Oberwolfach Black Forest in 1976 1979 1982 1985 and 1989 ref lect the progress made in this area and related fie Ids The present volume which is a continuation of the preceding volumes Constructive Theory of Functions of Several Variables Lecture Notes in Mathematics 571 1977 Multivariate Approximation Theory ISNM 51 1979 Multivariate Approximation Theory II ISNM 61 1982 Multivariate Approximation Theory III ISNM 75 1985 is based on the conference held on February 12 18 1989 It includes most of the lectures presented at the Oberwolfach meeting and reveals the wide spectrum of activities in the field of multivariate approximation The organizers are grateful to the Director of the Oberwolfach Mathematical Research Institute Professor Dr M Barner and his staff for providing the facili ties and to Dr G Baszenski Professor Dr F J Delvos Dr H Modern Signal Processing Daniel N. Rockmore, Dennis M. Healy, 2004-04-05 A

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