R. Tolimieri · M. An · C. Lu

Mathematics of Multidimensional Fourier Transform Algorithms

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Mathematics Of Multidimensional Fourier Transform Algorithms

E.V. Krishnamurthy

Mathematics Of Multidimensional Fourier Transform Algorithms:

   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 **Mathematics of Multidimensional Fourier Transform Alogrithms** Richard Tolimieri,Myoung An,Chao Lu,1993   *Mathematics of Multidimensional Fourier Transform Algorithms* 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   **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 *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 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

the development of applied mathematics by providing opportunities for young engineers mathematicians and other scientists to learn more about problem areas in today s technology that might benefit from new mathematical insights

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 **Introduction to Algorithms** Thomas H. Cormen,Charles E. Leiserson,Ronald L. Rivest,Clifford Stein,2009-07-31 This edition has been revised and updated throughout It includes some new chapters It features improved treatment of dynamic programming and greedy algorithms as well as a new notion of edge based flow in the material on flow networks book cover **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 **Los Alamos Science** ,2002 **Scientific and Technical Aerospace Reports** ,1992 **Fast Fourier**

Transform and Convolution Algorithms H.J. Nussbaumer,2013-03-08 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 The book consists of eight chapters The first two chapters are devoted to background information and to introductory material on number theory and polynomial algebra This section is limited to the basic concepts as they apply to other parts of the book Thus we have restricted our discussion of number theory to congruences primitive roots quadratic residues and to the properties of Mersenne and Fermat numbers The section on polynomial algebra deals primarily with the divisibility and congruence properties of polynomials and with algebraic computational complexity The rest of the book is focused directly on fast digital filtering and discrete Fourier transform algorithms We have attempted to present these techniques in a unified way by using polynomial algebra as extensively as possible This objective has led us to reformulate many of the algorithms which are discussed in the book It has been our experience that such a presentation serves to clarify the relationship between the algorithms and often provides clues to improved computation techniques Chapter 3 reviews the fast digital filtering algorithms with emphasis on algebraic methods and on the evaluation of one dimensional circular convolutions Chapters 4 and 5 present the fast Fourier transform and the Winograd Fourier transform algorithm *Time-Frequency Representations* Richard Tolimieri,Myoung An,2012-12-06 The aim of this work is to present several topics in time frequency analysis as subjects in abelian group theory The algebraic point of view pre dominates as questions of convergence are not considered Our approach emphasizes the unifying role played by group structures on the development of theory and algorithms This book consists of two main parts The first treats Weyl Heisenberg representations over finite abelian groups and the second deals with mul tirate filter structures over free abelian groups of finite rank In both the methods are dimensionless and coordinate free and apply to one and multidimensional problems The selection of topics is not motivated by mathematical necessity but rather by simplicity We could have developed Weyl Heisenberg theory over free abelian groups of finite rank or more generally developed both topics over locally compact abelian groups However except for having to dis cuss conditions for convergence Haar measures and other standard topics from analysis the underlying structures would essentially be the same A re cent collection of papers 17 provides an excellent review of time frequency analysis over locally compact abelian groups A further reason for limiting the scope of generality is that our results can be immediately applied to the design of algorithms and codes for time frequency processing *Error-Free Polynomial Matrix Computations* E.V. Krishnamurthy,2012-12-06 This book is written as an introduction to polynomial matrix computa tions It is a companion volume to an earlier book on Methods and Applications of Error Free Computation by R T Gregory and myself published by Springer Verlag New York 1984 This book is intended for seniors and graduate students in computer and system sciences and mathematics and for researchers in the fields of computer science numerical analysis systems theory and computer algebra Chapter I introduces the basic concepts of abstract algebra including power series and polynomials This chapter is

essentially meant for bridging the gap between the abstract algebra and polynomial matrix computations Chapter II is concerned with the evaluation and interpolation of polynomials The use of these techniques for exact inversion of poly nomial matrices is explained in the light of currently available error free computation methods In Chapter III the principles and practice of Fourier evaluation and interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is consi dered **Introduction to Algorithms** Mr. Rohit Manglik,2024-07-10 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Advances in Electronics and Electron Physics** ,1991-10-11 Advances in Electronics and Electron Physics *Applied Algebra, Algebraic Algorithms, and Error-correcting Codes* Teo Mora,1989-05-23 In 1988 for the first time the two international conferences AAECC 6 and ISSAC 88 International Symposium on Symbolic and Algebraic Computation see Lecture Notes in Computer Science 358 have taken place as a Joint Conference in Rome July 4 8 1988 The topics of the two conferences are in fact widely related to each other and the Joint Conference presented a good occasion for the two research communities to meet and share scientific experiences and results The proceedings of the AAECC 6 are included in this volume The main topics are Applied Algebra Theory and Application of Error Correcting Codes Cryptography Complexity Algebra Based Methods and Applications in Symbolic Computing and Computer Algebra and Algebraic Methods and Applications for Advanced Information Processing Twelve invited papers on subjects of common interest for the two conferences are divided between this volume and the succeeding Lecture Notes volume devoted to ISSACC 88 The proceedings of the 5th conference are published as Vol 356 of the Lecture Notes in Computer Science Fast Fourier Transform Algorithms for Parallel Computers Daisuke Takahashi,2019-10-05 Following an introduction to the basis of the fast Fourier transform FFT this book focuses on the implementation details on FFT for parallel computers FFT is an efficient implementation of the discrete Fourier transform DFT and is widely used for many applications in engineering science and mathematics Presenting many algorithms in pseudo code and a complexity analysis this book offers a valuable reference guide for graduate students engineers and scientists in the field who wish to apply FFT to large scale problems Parallel computation is becoming indispensable in solving the large scale problems increasingly arising in a wide range of applications The performance of parallel supercomputers is steadily improving and it is expected that a massively parallel system with hundreds of thousands of compute nodes equipped with multi core processors and accelerators will be available in the near future Accordingly the book also provides up to date computational techniques relevant to the FFT in state of the art parallel computers Following the introductory chapter Chapter 2 introduces readers to the DFT and the basic idea of the FFT Chapter 3 explains mixed radix FFT algorithms while Chapter 4 describes split radix FFT algorithms Chapter 5 explains

multi dimensional FFT algorithms Chapter 6 presents high performance FFT algorithms and Chapter 7 addresses parallel FFT algorithms for shared memory parallel computers In closing Chapter 8 describes parallel FFT algorithms for distributed memory parallel computers   *Digital Signal Processing Fundamentals* Vijay Madisetti,2017-12-19 Now available in a three volume set this updated and expanded edition of the bestselling The Digital Signal Processing Handbook continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information bearing signals in digital form Encompassing essential background material technical details standards and software the second edition reflects cutting edge information on signal processing algorithms and protocols related to speech audio multimedia and video processing technology associated with standards ranging from WiMax to MP3 audio low power high performance DSPs color image processing and chips on video Drawing on the experience of leading engineers researchers and scholars the three volume set contains 29 new chapters that address multimedia and Internet technologies tomography radar systems architecture standards and future applications in speech acoustics video radar and telecommunications Emphasizing theoretical concepts Digital Signal Processing Fundamentals provides comprehensive coverage of the basic foundations of DSP and includes the following parts Signals and Systems Signal Representation and Quantization Fourier Transforms Digital Filtering Statistical Signal Processing Adaptive Filtering Inverse Problems and Signal Reconstruction and Time Frequency and Multirate Signal Processing

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