

Numerical Linear Algebra, Digital Signal Processing and Parallel Algorithms

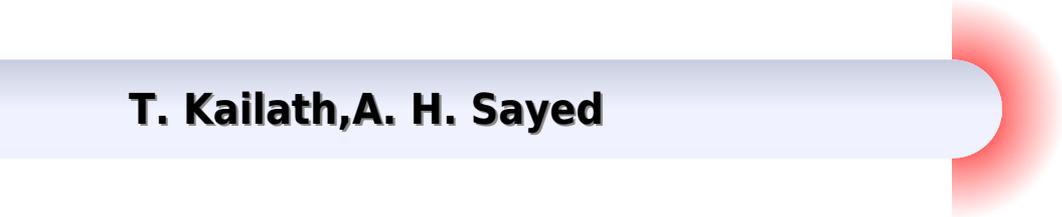
Edited by
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NATO ASI Series

Series F: Computer and Systems Sciences. Vol. 70

Numerical Linear Algebra Digital Signal Processing And Parallel Algorithms

T. Kailath, A. H. Sayed



Numerical Linear Algebra Digital Signal Processing And Parallel Algorithms:

Numerical Linear Algebra, Digital Signal Processing and Parallel Algorithms Gene H. Golub, Paul Van Dooren, 2012-12-06 Numerical linear algebra digital signal processing and parallel algorithms are three disciplines with a great deal of activity in the last few years The interaction between them has been growing to a level that merits an Advanced Study Institute dedicated to the three areas together This volume gives an account of the main results in this interdisciplinary field The following topics emerged as major themes of the meeting Singular value and eigenvalue decompositions including applications Toeplitz matrices including special algorithms and architectures Recursive least squares in linear algebra digital signal processing and control Updating and downdating techniques in linear algebra and signal processing Stability and sensitivity analysis of special recursive least squares problems Special architectures for linear algebra and signal processing This book contains tutorials on these topics given by leading scientists in each of the three areas A considerable number of new research results are presented in contributed papers The tutorials and papers will be of value to anyone interested in the three disciplines

Fast Reliable Algorithms for Matrices with Structure T. Kailath, A. H. Sayed, 1999-01-01 This book is the first to pay special attention to the combined issues of speed and numerical reliability in algorithm development These two requirements have often been regarded as competitive so much so that the design of fast and numerically reliable algorithms for large scale structured systems of linear equations in many cases remains a significant open issue Fast Reliable Algorithms for Matrices with Structure helps bridge this gap by providing the reader with recent contributions written by leading experts in the field The authors deal with both the theory and the practice of fast numerical algorithms for large scale structured linear systems Each chapter covers in detail different aspects of the most recent trends in the theory of fast algorithms with emphasis on implementation and application issues Both direct and iterative methods are covered This book is not merely a collection of articles The editors have gone to considerable lengths to blend the individual papers into a consistent presentation Each chapter exposes the reader to some of the most recent research while providing enough background material to put the work into proper context

High Performance Algorithms for Structured Matrix Problems Peter Arbenz, 1998 Comprises 10 contributions that summarize the state of the art in the areas of high performance solutions of structured linear systems and structured eigenvalue and singular value problems Topics covered range from parallel solvers for sparse or banded linear systems to parallel computation of eigenvalues and singular values of tridiagonal and bidiagonal matrices Specific paper topics include the stable parallel solution of general narrow banded linear systems efficient algorithms for reducing banded matrices to bidiagonal and tridiagonal form a numerical comparison of look ahead Levinson and Schur algorithms for non Hermitian Toeplitz systems and parallel CG methods automatically optimized for PC and workstation clusters Annotation copyrighted by Book News Inc Portland OR

Mutual Impact of Computing Power and Control Theory M. Kárny, K. Warwick, 2012-12-06 Recent rapid

developments in computing power such as parallel processing and neural networks have stimulated new trends in control. However a discrepancy exists between available computing power and exploitable algorithms obtained classically from control theory. The aim of this book is to address the discrepancy from both the computational power and control theory viewpoints. Areas such as identification, adaptive control, signal processing and neural networks therefore hold a prominent position in the text presented. The form of the book is such that it should be useful for readers at various levels, particularly those at the research and/or application stage. The book has resulted from the IFAC Workshop on the Mutual Impact of Computing Power and Control Theory which was held at the Institute of Information Theory and Automation UTIA Prague in September 1992. Organisation of the event was provided jointly by the Department of Adaptive Systems UTIA Prague and the School of Engineering and Information Sciences, University of Reading, UK. Selected papers from the Workshop have been chosen to give a good balance across the field whilst at the same time highlighting important areas for future research. In this way the book represents edited Proceedings from the Workshop. One point quickly apparent is the international nature of the presentations themselves which provide not only a technical appraisal of the field but also inject cultural aspects which are vitally important on the path ahead.

Signal Treatment and Signal Analysis in NMR D.N. Rutledge, 1996-06-10. Signal analysis and signal treatment are integral parts of all types of Nuclear Magnetic Resonance. In the last ten years much has been achieved in the development of dimensional spectra. At the same time new NMR techniques such as NMR Imaging and multidimensional spectroscopy have appeared requiring entirely new methods of signal analysis. Up until now most NMR texts and reference books limited their presentation of signal processing to a short introduction to the principles of the Fourier Transform, signal convolution, apodisation and noise reduction. To understand the mathematics of the newer signal processing techniques it was necessary to go back to the primary references in NMR chemometrics and mathematics journals. The objective of this book is to fill this void by presenting in a single volume both the theory and applications of most of these new techniques to Time Domain, Frequency Domain and Space Domain NMR signals. Details are provided on many of the algorithms used and a companion CD ROM is also included which contains some of the computer programs either as source code or in executable form. Although it is aimed primarily at NMR users in the medical, industrial and academic fields it should also interest chemometricians and programmers working with other techniques.

Structured Matrices in Mathematics, Computer Science, and Engineering I Vadim Olshevsky, 2001. The collection of the contributions to these volumes offers a flavor of the plethora of different approaches to attack structured matrix problems. The reader will find that the theory of structured matrices is positioned to bridge diverse applications in the sciences and engineering, deep mathematical theories as well as computational and numerical issues. The presentation fully illustrates the fact that the techniques of engineers, mathematicians and numerical analysts nicely complement each other and they all contribute to one unified theory of structured matrices. Back cover

High Performance Computing and Communications Ronald

Perrott, Barbara Chapman, Jaspal Subhlok, Rodrigo Fernandes de Mello, Laurence T. Yang, 2007-09-08 This book constitutes the refereed proceedings of the Third International Conference on High Performance Computing and Communications HPCC 2007 The 75 revised full papers address all current issues of parallel and distributed systems and high performance computing and communication including networking protocols embedded systems wireless mobile and pervasive computing Web services and internet computing and programming interfaces for parallel systems A Unified Signal Algebra Approach to Two-Dimensional Parallel Digital Signal Processing Louis A. D'Alotto, Charles R. Giardina, Hua Luo, 1998-01-09 Aims to bridge the gap between parallel computer architectures and the creation of parallel digital signal processing DSP algorithms This work offers an approach to digital signal processing utilizing the unified signal algebra environment to develop naturally occurring parallel DSP algorithms College or university book shops may order five or more copies at a special student price Price is available on request *Algorithms and Parallel VLSI Architectures* Ed F. Deprettere, Alle-Jan van der Veen, 1991 Advanced Algorithms and Architectures for Signal Processing IV Franklin T. Luk, 1989 Systolic Algorithms David J. Evans, 1991-01-01 While the architecture of present day parallel supercomputers is largely based on the concept of a shared memory with its attendant limitations of common access advances in semiconductor technology have led to the development of highly parallel computer architectures with decentralized storage and limited connections in which each processor possesses high bandwidth local memory connected to a small number of such architectures enabling cost effective high speed parallel processing for large volumes of data with ultra high throughput rates Algorithms suitable for implementation on systolic arrays find applications in areas such as signal and image processing pattern matching linear algebra recurrence algorithms and graph problems This book provides an insight into the implementation of systolic arrays and gives a comprehensive overview of the techniques and theories contributing to the design of systolic algorithms SIAM Journal on Matrix Analysis and Applications, 1998 **The Scientist**, 1988 *The Cumulative Book Index*, 1992 A world list of books in the English language **Proceedings of the 1995 American Control Conference** American Automatic Control Council, 1995 Mathematics in Signal Processing 4 J. G. McWhirter, I. K. Proudler, 1998 This volume provides an overview of the wide range of mathematical topics in signal processing The focus is on alternative algebras for signal processing particularly multilinear and geometric algebra and Gr bner bases Other topics include array processing and digital communications wavelets nonlinear signal processing Pad approximation convex optimization and generalized eigenvalue decomposition Blending theory and practice the volume will appeal to a wide range of engineers and mathematicians *Who's who in Technology*, 1986 SIAM Journal on Scientific Computing, 2004 Cornell Engineering Quarterly, 1991 **Engineering: Cornell Quarterly**, 1991

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