

Signal Processing Applications Using Multidimensional Polynomial Splines

Polynomial Signal Processing

Swagata Nandi, Debasis Kundu



Polynomial Signal Processing:

Polynomial Signal Processing V. John Mathews, Giovanni L. Sicuranza, 2000-05 Despite our growing understanding of the properties and capabilities of nonlinear filters there persists the belief among engineers that these filters are too complex to implement This book debunks the myth that all nonlinear filters are complex with its coverage of the polynomial filter It examines all major aspects of the technology including system modeling speed analysis image processing communications biological signal processing semiconductor modeling neural nets and more [Signal Processing Applications Using Multidimensional Polynomial Splines](#) Dhananjay Singh, Madhusudan Singh, Zaynidinov Hakimjon, 2018-12-07 This book highlights new methods algorithms and software for the digital processing and recovery of signals In addition it describes a new method for modeling one dimensional and multidimensional signals as successions of local polynomial splines and their spectral characteristics It provides examples of how the proposed methods can be applied in specific cases together with signal processing software examples in the MATLAB environment and models of special processes in the Simulink environment The book's goal is to make it easier for beginners to understand the subject matter it is intended for engineers undergraduate and graduate students engaged in research or the evaluation and design of hardware and software for the digital processing and recovery of signals

Positive Trigonometric Polynomials and Signal Processing Applications Bogdan Alexandru Dumitrescu, 2007-04-27 Positive Trigonometric Polynomials and Signal Processing Applications has two parts theory and applications The theory of sum of squares trigonometric polynomials is presented unitarily based on the concept of Gram matrix extended to Gram pair or Gram set The presentation starts by giving the main results for univariate polynomials which are later extended and generalized for multivariate polynomials The applications part is organized as a collection of related problems that use systematically the theoretical results All the problems are brought to a semidefinite programming form ready to be solved with algorithms freely available like those from the library SeDuMi

Polynomial Transforms John E. Haggerty, 1994 The goal of this thesis is to provide a tutorial of the discrete polynomial transforms and to show some applications of these transforms in the fields of signal processing and image processing

Polynomial Decomposition Algorithms in Signal Processing Guolong Su (S.M.), Massachusetts Institute of Technology. Department of Electrical Engineering and Computer Science, 2013 Polynomial decomposition has attracted considerable attention in computational mathematics In general the field identifies polynomials $f(x)$ and $g(x)$ such that their composition $f(g(x))$ equals or approximates a given polynomial $h(x)$ Despite potentially promising applications polynomial decomposition has not been significantly utilized in signal processing This thesis studies the sensitivities of polynomial composition and decomposition to explore their robustness in potential signal processing applications and develops effective polynomial decomposition algorithms to be applied in a signal processing context First we state the problems of sensitivity exact decomposition and approximate decomposition After that the sensitivities of the composition and decomposition operations are theoretically

derived from the perspective of robustness In particular we present and validate an approach to decrease certain sensitivities by using equivalent compositions and a practical rule for parameter selection is proposed to get to a point that is near the minimum of these sensitivities Then new algorithms are proposed for the exact decomposition problems and simulations are performed to make comparison with existing approaches Finally existing and new algorithms for the approximate

decomposition problems are presented and evaluated using numerical simulations **Algorithms for Polynomial-based Signal Processing** David Starer,1990 **Positive Trigonometric Polynomials and Signal Processing Applications**

Bogdan Alexandru Dumitrescu,2009-09-03 This book gathers the main recent results on positive trigonometric polynomials within a unitary framework The book has two parts theory and applications The theory of sum of squares trigonometric polynomials is presented unitarily based on the concept of Gram matrix extended to Gram pair or Gram set The applications part is organized as a collection of related problems that use systematically the theoretical results **An Introduction to**

Digital Signal Processing John H. Karl,2012-12-02 An Introduction to Digital Signal Processing is written for those who need to understand and use digital signal processing and yet do not wish to wade through a multi semester course sequence Using only calculus level mathematics this book progresses rapidly through the fundamentals to advanced topics such as iterative least squares design of IIR filters inverse filters power spectral estimation and multidimensional applications all in one concise volume This book emphasizes both the fundamental principles and their modern computer implementation It presents and demonstrates how simple the actual computer code is for advanced modern algorithms used in DSP Results of these programs which the reader can readily duplicate and use on a PC are presented in many actual computer drawn plots Assumes no previous knowledge of signal processing but leads up to very advanced techniques combines exposition of fundamental principles with practical applications Includes problems with each chapter Presents in detail the appropriate computer algorithms for solving problems **Academic Press Library in Signal Processing** Mats Viberg,Abdelhak

Zoubir,2013-08-31 This third volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in array and statistical signal processing With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Modern Signal Processing Xian-Da Zhang,2022-12-05 The book systematically introduces theories of frequently used modern signal processing methods and technologies and focuses discussions on stochastic signal parameter estimation

modern spectral estimation adaptive filter high order signal analysis and non linear transformation in time domain signal analysis With abundant exercises the book is an essential reference for graduate students in electrical engineering and information science

Time-Frequency Signal Analysis and Processing Boualem Boashash, 2015-12-11 Time Frequency Signal Analysis and Processing TFSAP is a collection of theory techniques and algorithms used for the analysis and processing of non stationary signals as found in a wide range of applications including telecommunications radar and biomedical engineering This book gives the university researcher and R a Getting Started chapter enabling readers to start using the algorithms on simulated and real examples with the TFSAP toolbox compare the results with the ones presented in the book and then insert the algorithms in their own applications and adapt them as needed Two new chapters and twenty three new sections including updated references New topics including efficient algorithms for optimal TFDs with source code the enhanced spectrogram time frequency modelling more mathematical foundations the relationships between QTFDs and Wavelet Transforms new advanced applications such as cognitive radio watermarking noise reduction in the time frequency domain algorithms for Time Frequency Image Processing and Time Frequency applications in neuroscience new chapter A comprehensive tutorial introduction to Time Frequency Signal Analysis and Processing TFSAP accessible to anyone who has taken a first course in signals Key advances in theory methodology and algorithms are concisely presented by some of the leading authorities on the respective topics Applications written by leading researchers showing how to use TFSAP methods

Signal Processing and Machine Learning Theory Paulo S.R. Diniz, 2023-07-10 Signal Processing and Machine Learning Theory authored by world leading experts reviews the principles methods and techniques of essential and advanced signal processing theory These theories and tools are the driving engines of many current and emerging research topics and technologies such as machine learning autonomous vehicles the internet of things future wireless communications medical imaging etc Provides quick tutorial reviews of important and emerging topics of research in signal processing based tools Presents core principles in signal processing theory and shows their applications Discusses some emerging signal processing tools applied in machine learning methods References content on core principles technologies algorithms and applications Includes references to journal articles and other literature on which to build further more specific and detailed knowledge

Digital Control and Signal Processing Systems and Techniques, 1996-07-30 Praise for the Series This book will be a useful reference to control engineers and researchers The papers contained cover well the recent advances in the field of modern control theory IEEE Group Correspondence This book will help all those researchers who valiantly try to keep abreast of what is new in the theory and practice of optimal control Control

Statistical Signal Processing Swagata Nandi, Debasis Kundu, 2020-08-21 This book introduces readers to various signal processing models that have been used in analyzing periodic data and discusses the statistical and computational methods involved Signal processing can broadly be considered to be the recovery of information from physical observations The received signals are usually disturbed by thermal electrical

atmospheric or intentional interferences and due to their random nature statistical techniques play an important role in their analysis Statistics is also used in the formulation of appropriate models to describe the behavior of systems the development of appropriate techniques for estimation of model parameters and the assessment of the model performances Analyzing different real world data sets to illustrate how different models can be used in practice and highlighting open problems for future research the book is a valuable resource for senior undergraduate and graduate students specializing in mathematics or statistics

Gröbner Bases in Control Theory and Signal Processing Hyungju Park, Georg Regensburger, 2011-12-22 This volume contains survey and original articles presenting the state of the art on the application of Gröbner bases in control theory and signal processing The contributions are based on talks delivered at the Special Semester on Gröbner Bases and Related Methods at the Johann Radon Institute of Computational and Applied Mathematics RICAM Linz Austria in May 2006

A Wavelet Tour of Signal Processing Stephane Mallat, 1999-09-14 This book is intended to serve as an invaluable reference for anyone concerned with the application of wavelets to signal processing It has evolved from material used to teach wavelet signal processing courses in electrical engineering departments at Massachusetts Institute of Technology and Tel Aviv University as well as applied mathematics departments at the Courant Institute of New York University and colePolytechnique in Paris Provides a broad perspective on the principles and applications of transient signal processing with wavelets Emphasizes intuitive understanding while providing the mathematical foundations and description of fast algorithms Numerous examples of real applications to noise removal deconvolution audio and image compression singularity and edge detection multifractal analysis and time varying frequency measurements Algorithms and numerical examples are implemented in Wavelab which is a Matlab toolbox freely available over the Internet Content is accessible on several level of complexity depending on the individual reader's needs New to the Second Edition Optical flow calculation and video compression algorithms Image models with bounded variation functions Bayes and Minimax theories for signal estimation 200 pages rewritten and most illustrations redrawn More problems and topics for a graduate course in wavelet signal processing in engineering and applied mathematics

Adaptive Systems in Control and Signal Processing 1989 T.S. Durrani, D.H. Owens, M.A. Johnson, M.J. Grimble, 2014-06-28 The Symposium covered three major areas adaptive control identification and signal processing In all three new developments were discussed covering both theoretical and applications research Within the subject area of adaptive control the discussion centred around the challenges of robust control design to unmodelled dynamics robust parameter estimation and enhanced performance from the estimator while the papers on identification took the theme of it being a bridge between adaptive control and signal processing The final area looked at two aspects of signal processing recursive estimation and adaptive filters

Mathematics in Signal Processing V J. G. McWhirter, I. K. Proudler, Institute of Mathematics and Its Applications, 2002 This is a collection of papers from the IMA conference on Mathematics in Signal Processing Signal processing is an important industrial area for the application of

mathematical concepts it has recently been fuelled by developments in mobile communications multimedia systems and digital TV This collection of papers presents a good coverage of current activity on this subject worldwide and is of interest to those in industry carrying out research into signal processing for communications sonar radar navigation and biomedical applications and to academic mathematicians identifying new mathematical problems

Algebraic Methods for Signal Processing and Communications Coding Richard E. Blahut, 2012-12-06 Algorithms for computation are a central part of both digital signal processing and decoders for error control codes and the central algorithms of the two subjects share many similarities Each subject makes extensive use of the discrete Fourier transform of convolutions and of algorithms for the inversion of Toeplitz systems of equations Digital signal processing is now an established subject in its own right it no longer needs to be viewed as a digitized version of analog signal processing Algebraic structures are becoming more important to its development Many of the techniques of digital signal processing are valid in any algebraic field although in most cases at least part of the problem will naturally lie either in the real field or the complex field because that is where the data originate In other cases the choice of field for computations may be up to the algorithm designer who usually chooses the real field or the complex field because of familiarity with it or because it is suitable for the particular application Still it is appropriate to catalog the many algebraic fields in a way that is accessible to students of digital signal processing in hopes of stimulating new applications to engineering tasks

Adaptive Systems in Control and Signal Processing 1992 L. Dugard, M. M'Saad, I.D. Landau, 2014-06-28 Adaptive Systems remain a very interesting field of theoretical research extended by methodological studies and an increasing number of applications The plenary papers invited sessions and contributed sessions focused on many aspects of adaptive systems such as systems identification and modelling adaptive control of nonlinear systems and theoretical issues in adaptive control Also covered were methodological aspects and applications of adaptive control intelligent tuning and adaptive signal processing

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