

# **MATHEMATICS IN SIGNAL PROCESSING V**

Edited by

J. G. McWHIRTER and

I. K. PROUDLER



# Mathematics Of Signal Processing V

**A Loxley**



## **Mathematics Of Signal Processing V:**

**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.

**Theory and Computation of Complex Tensors and its Applications** Maolin Che, Yimin Wei, 2020-04-01  
The book provides an introduction of very recent results about the tensors and mainly focuses on the authors' work and perspective. A systematic description about how to extend the numerical linear algebra to the numerical multi-linear algebra is also delivered in this book. The authors design the neural network model for the computation of the rank one approximation of real tensors, a normalization algorithm to convert some nonnegative tensors to plane stochastic tensors, and a probabilistic algorithm for locating a positive diagonal in a nonnegative tensor. Adaptive randomized algorithms for computing the approximate tensor decompositions and the QR type method for computing U eigenpairs of complex tensors. This book could be used for the Graduate course such as Introduction to Tensor. Researchers may also find it helpful as a reference in tensor research.

*Tensors: Geometry and Applications* J. M. Landsberg, 2024-11-07  
Tensors are ubiquitous in the sciences. The geometry of tensors is both a powerful tool for extracting information from data sets and a beautiful subject in its own right. This book has three intended uses: a classroom textbook, a reference work for researchers in the sciences, and an account of classical and modern results in aspects of the theory that will be of interest to researchers in geometry. For classroom use, there is a modern introduction to multilinear algebra and to the geometry and representation theory needed to study tensors, including a large number of exercises. For researchers in the sciences, there is information on tensors in table format for easy reference and a summary of the state of the art in elementary language. This is the first book containing many classical results regarding tensors. Particular applications treated in the book include the complexity of matrix multiplication, P versus NP, signal processing, phylogenetics, and algebraic statistics. For geometers, there is material on secant varieties, G-varieties, spaces with finitely many orbits, and how these objects arise in applications. Discussions of numerous open questions in geometry arising in applications and expositions of advanced topics such as the proof of the Alexander-Hirschowitz theorem and of the Weyman-Kempf method for computing syzygies.

[Adaptive Processing of Brain Signals](#) Saeid Sanei, 2013-05-28  
In this book, the field of adaptive learning and processing is extended to arguably one of its most important contexts, which is the understanding and analysis of brain signals. No attempt is made to comment on physiological aspects of brain activity; instead, signal processing methods are developed and used to assist clinical findings. Recent developments in detection

estimation and separation of diagnostic cues from different modality neuroimaging systems are discussed These include constrained nonlinear signal processing techniques which incorporate sparsity nonstationarity multimodal data and multiway techniques Key features Covers advanced and adaptive signal processing techniques for the processing of electroencephalography EEG and magneto encephalography MEG signals and their correlation to the corresponding functional magnetic resonance imaging fMRI Provides advanced tools for the detection monitoring separation localising and understanding of functional anatomical and physiological abnormalities of the brain Puts a major emphasis on brain dynamics and how this can be evaluated for the assessment of brain activity in various states such as for brain computer interfacing emotions and mental fatigue analysis Focuses on multimodal and multiway adaptive processing of brain signals the new direction of brain signal research

### **Tensor Numerical Methods in Scientific Computing**

Boris N. Khoromskij, 2018-06-11 The most difficult computational problems nowadays are those of higher dimensions This research monograph offers an introduction to tensor numerical methods designed for the solution of the multidimensional problems in scientific computing These methods are based on the rank structured approximation of multivariate functions and operators by using the appropriate tensor formats The old and new rank structured tensor formats are investigated We discuss in detail the novel quantized tensor approximation method QTT which provides function operator calculus in higher dimensions in logarithmic complexity rendering super fast convolution FFT and wavelet transforms This book suggests the constructive recipes and computational schemes for a number of real life problems described by the multidimensional partial differential equations We present the theory and algorithms for the sinc based separable approximation of the analytic radial basis functions including Green's and Helmholtz kernels The efficient tensor based techniques for computational problems in electronic structure calculations and for the grid based evaluation of long range interaction potentials in multi particle systems are considered We also discuss the QTT numerical approach in many particle dynamics tensor techniques for stochastic parametric PDEs as well as for the solution and homogenization of the elliptic equations with highly oscillating coefficients Contents Theory on separable approximation of multivariate functions Multilinear algebra and nonlinear tensor approximation Superfast computations via quantized tensor approximation Tensor approach to multidimensional integrodifferential equations

### **Handbook of Blind Source Separation**

Pierre Comon, Christian Jutten, 2010-02-17 Edited by the people who were forerunners in creating the field together with contributions from 34 leading international experts this handbook provides the definitive reference on Blind Source Separation giving a broad and comprehensive description of all the core principles and methods numerical algorithms and major applications in the fields of telecommunications biomedical engineering and audio acoustic and speech processing Going beyond a machine learning perspective the book reflects recent results in signal processing and numerical analysis and includes topics such as optimization criteria mathematical tools the design of numerical algorithms convolutive mixtures and time frequency approaches This Handbook

is an ideal reference for university researchers R algebraic identification of under determined mixtures time frequency methods Bayesian approaches blind identification under non negativity approaches semi blind methods for communications Shows the applications of the methods to key application areas such as telecommunications biomedical engineering speech acoustic audio and music processing while also giving a general method for developing applications **Algorithms and Parallel VLSI Architectures III** M. Moonen,F. Catthoor,1995-03-16 A comprehensive overview of the current evolution of research in algorithms architectures and compilation for parallel systems is provided by this publication The contributions focus specifically on domains where embedded systems are required either oriented to application specific or to programmable realisations These are crucial in domains such as audio telecom instrumentation speech robotics medical and automotive processing image and video processing TV multimedia radar and sonar The book will be of particular interest to the academic community because of the detailed descriptions of research results presented In addition many contributions feature the real life applications that are responsible for driving research and the impact of their specific characteristics on the methodologies is assessed The publication will also be of considerable value to senior design engineers and CAD managers in the industrial arena who wish either to anticipate the evolution of commercially available design tools or to utilize the presented concepts in their own R D programmes *Decomposability of Tensors* Luca Chiantini,2019-02-15 This book is a printed edition of the Special Issue Decomposability of Tensors that was published in Mathematics *Matrix Computations* Gene H. Golub,Charles F. Van Loan,2013-02-15 A comprehensive treatment of numerical linear algebra from the standpoint of both theory and practice The fourth edition of Gene H Golub and Charles F Van Loan s classic is an essential reference for computational scientists and engineers in addition to researchers in the numerical linear algebra community Anyone whose work requires the solution to a matrix problem and an appreciation of its mathematical properties will find this book to be an indispensable tool This revision is a cover to cover expansion and renovation of the third edition It now includes an introduction to tensor computations and brand new sections on fast transforms parallel LU discrete Poisson solvers pseudospectra structured linear equation problems structured eigenvalue problems large scale SVD methods polynomial eigenvalue problems Matrix Computations is packed with challenging problems insightful derivations and pointers to the literature everything needed to become a matrix savvy developer of numerical methods and software The second most cited math book of 2012 according to MathSciNet the book has placed in the top 10 for since 2005

Advanced Pattern Recognition Technologies with Applications to Biometrics Zhang, David,Song, Fengxi,Xu, Yong,Liang, Zhizhen,2009-01-31 This book focuses on two kinds of advanced biometric recognition technologies biometric data discrimination and multi biometrics Provided by publisher Conference Digest International Conference on Mathematics in Signal Processing (6, 2004, Cirencester),2004 **2022 Applied Mathematics and Statistics - Editor's Pick** Charles K. Chui,Eric Chung,Jianfeng Cai,Raluca Eftimie,Hong-Kun Xu,Daniel Potts,Young Shin Aaron Kim,Axel Hutt,2023-04-06

Progress in Industrial Mathematics at ECMI 2000 Angelo M. Anile, Vincenzo Capasso, Antonio Greco, 2013-06-29 Realizing the need of interaction between universities and research groups in industry the European Consortium for Mathematics in Industry ECMI was founded in 1986 by mathematicians from ten European universities Since then it has been continuously extending and now it involves about all European countries The aims of ECMI are To promote the use of mathematical models in industry To educate industrial mathematicians to meet the growing demand for such experts To operate on a European Scale Mathematics as the language of the sciences has always played an important role in technology and now is applied also to a variety of problems in commerce and the environment European industry is increasingly becoming dependent on high technology and the need for mathematical expertise in both research and development can only grow These new demands on mathematics have stimulated academic interest in Industrial Mathematics and many mathematical groups world wide are committed to interaction with industry as part of their research activities ECMI was founded with the intention of offering its collective knowledge and expertise to European Industry The experience of ECMI members is that similar technical problems are encountered by different companies in different countries It is also true that the same mathematical expertise may often be used in differing industrial applications

*Detection of Random Signals in Dependent Gaussian Noise* Antonio F. Gualtierotti, 2015-12-15 The book presents the necessary mathematical basis to obtain and rigorously use likelihoods for detection problems with Gaussian noise To facilitate comprehension the text is divided into three broad areas reproducing kernel Hilbert spaces Cramér-Hida representations and stochastic calculus for which a somewhat different approach was used than in their usual stand alone context One main applicable result of the book involves arriving at a general solution to the canonical detection problem for active sonar in a reverberation limited environment Nonetheless the general problems dealt with in the text also provide a useful framework for discussing other current research areas such as wavelet decompositions neural networks and higher order spectral analysis The structure of the book with the exposition presenting as many details as necessary was chosen to serve both those readers who are chiefly interested in the results and those who want to learn the material from scratch Hence the text will be useful for graduate students and researchers alike in the fields of engineering mathematics and statistics

*Wireless Multi-Antenna Channels* Serguei Primak, Valeri Kontorovich, 2011-10-14 This book offers a practical guide on how to use and apply channel models for system evaluation In this book the authors focus on modeling and simulation of multiple antennas channels including multiple input multiple output MIMO communication channels and the impact of such models on channel estimation and system performance Both narrowband and wideband models are addressed Furthermore the book covers topics related to modeling of MIMO channel their numerical simulation estimation and prediction as well as applications to receive diversity capacity and space time coding techniques Key Features Contains significant background material as well as novel research coverage which make the book suitable for both graduate students and researchers Addresses issues such as key hole correlated and

non i i d channels in the frame of the Generalized Gaussian approach Provides a unique treatment of generalized Gaussian channels and orthogonal channel representation Reviews different interpretations of scattering environment including geometrical models Focuses on the analytical techniques which give a good insight into the design of systems on higher levels Describes a number of numerical simulators demonstrating the practical use of this material Includes an accompanying website containing additional materials and practical examples for self study This book will be of interest to researchers engineers lecturers and graduate students *Non-diophantine Arithmetics In Mathematics, Physics And Psychology* Mark Burgin,Marek Czachor,2020-11-04 For a long time all thought there was only one geometry Euclidean geometry Nevertheless in the 19th century many non Euclidean geometries were discovered It took almost two millennia to do this This was the major mathematical discovery and advancement of the 19th century which changed understanding of mathematics and the work of mathematicians providing innovative insights and tools for mathematical research and applications of mathematics A similar event happened in arithmetic in the 20th century Even longer than with geometry all thought there was only one conventional arithmetic of natural numbers the Diophantine arithmetic in which  $2^2 4$  and  $1^1 2$  It is natural to call the conventional arithmetic by the name Diophantine arithmetic due to the important contributions to arithmetic by Diophantus Nevertheless in the 20th century many non Diophantine arithmetics were discovered in some of which  $2^2 5$  or  $1^1 3$  It took more than two millennia to do this This discovery has even more implications than the discovery of new geometries because all people use arithmetic This book provides a detailed exposition of the theory of non Diophantine arithmetics and its various applications Reading this book the reader will see that on the one hand non Diophantine arithmetics continue the ancient tradition of operating with numbers while on the other hand they introduce extremely original and innovative ideas *Advances in Applied Mathematics and Global Optimization* David Y. Gao,Hanif D. Sherali,2009-04-09 The articles that comprise this distinguished annual volume for the Advances in Mechanics and Mathematics series have been written in honor of Gilbert Strang a world renowned mathematician and exceptional person Written by leading experts in complementarity duality global optimization and quantum computations this collection reveals the beauty of these mathematical disciplines and investigates recent developments in global optimization nonconvex and nonsmooth analysis nonlinear programming theoretical and engineering mechanics large scale computation quantum algorithms and computation and information theory **Selected Papers in Digital Signal Processing, II** IEEE Acoustics, Speech, and Signal Processing Society. Digital Signal Processing Committee,1976 Digital signal processing I edited by Lawrence R Rabiner and Charles M Rader *Mathematics of Computation* ,1989 Original articles on all aspects of numerical mathematics book reviews mathematical tables and technical notes Covers advances in numerical analysis application of computer methods high speed calculating and other aids to computation *Computation and Applied Mathematics* ,1996

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