
Jerry M. Mendel

**Maximum-Likelihood
Deconvolution**

**A Journey into Model-Based
Signal Processing**



Springer-Verlag

Maximum Likelihood Deconvolution A Journey Into Medoebased Signal Procebing

Cornelius T Leondes



Maximum Likelihood Deconvolution A Journey Into Medoebased Signal Procebing:

Maximum-Likelihood Deconvolution Jerry M. Mendel, 2012-12-06 Convolution is the most important operation that describes the behavior of a linear time invariant dynamical system Deconvolution is the unraveling of convolution It is the inverse problem of generating the system s input from knowledge about the system s output and dynamics Deconvolution requires a careful balancing of bandwidth and signal to noise ratio effects Maximum likelihood deconvolution MLD is a design procedure that handles both effects It draws upon ideas from Maximum Likelihood when unknown parameters are random It leads to linear and nonlinear signal processors that provide high resolution estimates of a system s input All aspects of MLD are described from first principles in this book The purpose of this volume is to explain MLD as simply as possible To do this the entire theory of MLD is presented in terms of a convolutional signal generating model and some relatively simple ideas from optimization theory Earlier approaches to MLD which are couched in the language of state variable models and estimation theory are unnecessary to understand the essence of MLD MLD is a model based signal processing procedure because it is based on a signal model namely the convolutional model The book focuses on three aspects of MLD 1 specification of a probability model for the system s measured output 2 determination of an appropriate likelihood function and 3 maximization of that likelihood function Many practical algorithms are obtained Computational aspects of MLD are described in great detail Extensive simulations are provided including real data applications

Maximum-likelihood Deconvolution Jerry M. Mendel, 1990-01-01 Blind Equalization and System Identification Chong-Yung Chi, Chih-Chun Feng, Chii-Horng Chen, Ching-Yung Chen, 2006-05-20 The absence of training signals from many kinds of transmission necessitates the widespread use of blind equalization and system identification There have been many algorithms developed for these purposes working with one or two dimensional signals and with single input single output or multiple input multiple output real or complex systems It is now time for a unified treatment of this subject pointing out the common characteristics of these algorithms as well as learning from their different perspectives Blind Equalization and System Identification provides such a unified treatment presenting theory performance analysis simulation implementation and applications This is a textbook for graduate courses in discrete time random processes statistical signal processing and blind equalization and system identification It contains material which will also interest researchers and engineers working in digital communications source separation speech processing and other similar applications *Bayesian Approach to Inverse Problems* Jérôme Idier, 2013-03-01 Many scientific medical or engineering problems raise the issue of recovering some physical quantities from indirect measurements for instance detecting or quantifying flaws or cracks within a material from acoustic or electromagnetic measurements at its surface is an essential problem of non destructive evaluation The concept of inverse problems precisely originates from the idea of inverting the laws of physics to recover a quantity of interest from measurable data Unfortunately most inverse problems are ill posed which means that precise and stable

solutions are not easy to devise Regularization is the key concept to solve inverse problems The goal of this book is to deal with inverse problems and regularized solutions using the Bayesian statistical tools with a particular view to signal and image estimation The first three chapters bring the theoretical notions that make it possible to cast inverse problems within a mathematical framework The next three chapters address the fundamental inverse problem of deconvolution in a comprehensive manner Chapters 7 and 8 deal with advanced statistical questions linked to image estimation In the last five chapters the main tools introduced in the previous chapters are put into a practical context in important applicative areas such as astronomy or medical imaging

Advanced Digital Signal Processing and Noise Reduction Saeed V. Vaseghi, 2008-12-23 Digital signal processing plays a central role in the development of modern communication and information processing systems The theory and application of signal processing is concerned with the identification modelling and utilisation of patterns and structures in a signal process The observation signals are often distorted incomplete and noisy and therefore noise reduction the removal of channel distortion and replacement of lost samples are important parts of a signal processing system The fourth edition of Advanced Digital Signal Processing and Noise Reduction updates and extends the chapters in the previous edition and includes two new chapters on MIMO systems Correlation and Eigen analysis and independent component analysis The wide range of topics covered in this book include Wiener filters echo cancellation channel equalisation spectral estimation detection and removal of impulsive and transient noise interpolation of missing data segments speech enhancement and noise interference in mobile communication environments This book provides a coherent and structured presentation of the theory and applications of statistical signal processing and noise reduction methods Two new chapters on MIMO systems correlation and Eigen analysis and independent component analysis Comprehensive coverage of advanced digital signal processing and noise reduction methods for communication and information processing systems Examples and applications in signal and information extraction from noisy data Comprehensive but accessible coverage of signal processing theory including probability models Bayesian inference hidden Markov models adaptive filters and Linear prediction models Advanced Digital Signal Processing and Noise Reduction is an invaluable text for postgraduates senior undergraduates and researchers in the fields of digital signal processing telecommunications and statistical data analysis It will also be of interest to professional engineers in telecommunications and audio and signal processing industries and network planners and implementers in mobile and wireless communication communities

Multimedia Signal Processing Saeed V. Vaseghi, 2007-10-22 Multimedia Signal Processing is a comprehensive and accessible text to the theory and applications of digital signal processing DSP The applications of DSP are pervasive and include multimedia systems cellular communication adaptive network management radar pattern recognition medical signal processing financial data forecasting artificial intelligence decision making control systems and search engines This book is organised in to three major parts making it a coherent and structured presentation of the theory

and applications of digital signal processing A range of important topics are covered in basic signal processing model based statistical signal processing and their applications Part 1 Basic Digital Signal Processing gives an introduction to the topic discussing sampling and quantization Fourier analysis and synthesis Z transform and digital filters Part 2 Model based Signal Processing covers probability and information models Bayesian inference Wiener filter adaptive filters linear prediction hidden Markov models and independent component analysis Part 3 Applications of Signal Processing in Speech Music and Telecommunications explains the topics of speech and music processing echo cancellation deconvolution and channel equalization and mobile communication signal processing Covers music signal processing explains the anatomy and psychoacoustics of hearing and the design of MP3 music coder Examines speech processing technology including speech models speech coding for mobile phones and speech recognition Covers single input and multiple inputs denoising methods bandwidth extension and the recovery of lost speech packets in applications such as voice over IP VoIP Illustrated throughout including numerous solved problems Matlab experiments and demonstrations Companion website features Matlab and C programs with electronic copies of all figures This book is ideal for researchers postgraduates and senior undergraduates in the fields of digital signal processing telecommunications and statistical data analysis It will also be a valuable text to professional engineers in telecommunications and audio and signal processing industries

Seismic Inversion Methods: A Practical Approach S. P. Maurya, N. P. Singh, K. H. Singh, 2020-05-28 This book introduces readers to seismic inversion methods and their application to both synthetic and real seismic data sets Seismic inversion methods are routinely used to estimate attributes like P impedance S impedance density the ratio of P wave and S wave velocities and elastic impedances from seismic and well log data These attributes help to understand lithology and fluid contents in the subsurface There are several seismic inversion methods available but their application and results differ considerably which can lead to confusion This book explains all popular inversion methods discusses their mathematical backgrounds and demonstrates their capacity to extract information from seismic reflection data The types covered include model based inversion colored inversion sparse spike inversion band limited inversion simultaneous inversion elastic impedance inversion and geostatistical inversion which includes single attribute analysis multi attribute analysis probabilistic neural networks and multi layer feed forward neural networks In addition the book describes local and global optimization methods and their application to seismic reflection data Given its multidisciplinary integrated and practical approach the book offers a valuable tool for students and young professionals especially those affiliated with oil companies

Computation and Applied Mathematics, 2003

Uncertain Rule-Based Fuzzy Systems Jerry M. Mendel, 2017-05-17 The second edition of this textbook provides a fully updated approach to fuzzy sets and systems that can model uncertainty i e type 2 fuzzy sets and systems The author demonstrates how to overcome the limitations of classical fuzzy sets and systems enabling a wide range of applications from time series forecasting to knowledge mining to control In this new edition a bottom up approach is presented that begins by

introducing classical type 1 fuzzy sets and systems and then explains how they can be modified to handle uncertainty The author covers fuzzy rule based systems from type 1 to interval type 2 to general type 2 in one volume For hands on experience the book provides information on accessing MatLab and Java software to complement the content The book features a full suite of classroom material

Theoretical And Computational Acoustics 2005 (With Cd-rom) - Proceedings Of The 7th International Conference (Ictca 2005) Alexandra Tolstoy, Er-chang Shang, Yu-chiung Teng, 2006-10-16 This volume represents the latest advances in the field of theoretical and computational acoustics The coverage includes results in the areas of underwater acoustics seismics scattering inversion genetic algorithms reverberation IFEM Radon transforms wavelet statistics PE modeling and Gaussian beams

Theoretical and Computational Acoustics 2005 Dr. Alexandra Tolstoy, Erchang Shang, Yu-Chiung Teng, 2006 Preface Reconstruction of sound pressure field by IFEM R Anderssohn und weitere Seabed parameter estimation by inversion of long range sound propagation fields W Chen L Ma and N R Chapman High resolution radon transform and wavefield separation J Chen und weitere Three dimensional acoustic simulation on acoustic scattering by nonlinear internal wave in coastal ocean L Y S Chiu C F Chen and J F Lynch Estimation of shear wave velocity in seafloor sediment by seismo acoustic interface waves a case study for geotechnical application H Dong J M Hovem and S A Frivik The optimum source depth distribution for reverberation inversion in a shallow water waveguide T F Gao and E C Shang Semi automatic adjoint PE modeling for geoacoustic inversion J P Hermand und weitere Modeling 3D wave propagation in the ocean coupled with elastic bottom and irregular interface L W Hsieh D Lee and C F Chen Reflections from steel plates with doubly periodic anechoic coatings S Ivansson Seismic characterization and monitoring of thin layer reservoir L Jin X Chen and J Li The energy conserving property of the standard PE D Lee and E C Shang Estimation of anisotropic properties from a surface seismic survey and log data R Li and M Urosevic Using Gaussian beam model in oceans with penetrating slope bottoms Y T Lin und weitere Application Niche genetic algorithms to AVOA inversion in orthorhombic media M H Lu and H Z Yang Reconstruction of seismic impedance from marine seismic data B R Mabuza und weitere Characterization of an underwater acoustic signal using the statistics of the wavelet subband coefficients M I Taroudakis G Tzagkarakis and P Tsakalides Some theoretical aspects for elastic wave modeling in a recently developed spectral element method X M Wang G Seriani and W J Lin Inversion of bottom back scattering matrix J R Wu T F Gao and E C Shang New methods of scattering coefficients computation for the prediction of room acoustic parameters X Zeng C L Christensen and J H Rindel

Image and Signal Processing Abderrahim Elmoataz, Olivier Lezoray, Fathallah Nouboud, Driss Mammass, 2008-07-06 This book constitutes the refereed proceedings of the Third International Conference on Image and Signal Processing ICISP 2008 held in Cherbourg Octeville France in July 2008 The 48 revised full papers and 22 revised poster papers presented were carefully reviewed and selected from 193 submissions The papers are organized in topical sections on image filtering image segmentation computer vision feature

extraction pattern recognition graph based representations motion detection and estimation new interfaces document processing and signal processing Nonlinear Dynamics and Statistics Alistair I. Mees, 2012-12-06 All models are lies The Earth orbits the sun in an ellipse with the sun at one focus is false but accurate enough for almost all purposes This book describes the current state of the art of telling useful lies about time varying systems in the real world Specifically it is about trying to understand that is tell useful lies about dynamical systems directly from observations either because they are too complex to model in the conventional way or because they are simply ill understood Because it overlaps with conventional time series analysis building models of nonlinear dynamical systems directly from data has been seen by some observers as a somewhat ill informed attempt to reinvent time series analysis The truth is distinctly less trivial It is surely impossible except in a few special cases to recreate Newton's astonishing feat of writing a short equation that is an excellent description of real world phenomena Real systems are connected to the rest of the world they are noisy non stationary and have high dimensional dynamics even when the dynamics contains lower dimensional attractors there is almost never a coordinate system available in which these attractors have a conventionally simple description Introduction to Radar Target Recognition P. Tait, 2005 This book text provides an overview of the radar target recognition process and covers the key techniques being developed for operational systems It is based on the fundamental scientific principles of high resolution radar and explains how the underlying techniques can be used in real systems taking into account the characteristics of practical radar system designs and component limitations It also addresses operational aspects such as how high resolution modes would fit in with other functions such as detection and tracking Partially Observed Markov Decision Processes Vikram Krishnamurthy, 2016-03-21 Covering formulation algorithms and structural results and linking theory to real world applications in controlled sensing including social learning adaptive radars and sequential detection this book focuses on the conceptual foundations of partially observed Markov decision processes POMDPs It emphasizes structural results in stochastic dynamic programming enabling graduate students and researchers in engineering operations research and economics to understand the underlying unifying themes without getting weighed down by mathematical technicalities Bringing together research from across the literature the book provides an introduction to nonlinear filtering followed by a systematic development of stochastic dynamic programming lattice programming and reinforcement learning for POMDPs Questions addressed in the book include when does a POMDP have a threshold optimal policy When are myopic policies optimal How do local and global decision makers interact in adaptive decision making in multi agent social learning where there is herding and data incest And how can sophisticated radars and sensors adapt their sensing in real time *Medical Imaging Systems Techniques and Applications: Cardiovascular systems* Cornelius T. Leondes, 1997 First Published in 2004 Routledge is an imprint of Taylor Francis an informa company Medical Imaging Systems Techniques and Applications Cornelius T Leondes, 2014-03-05 First Published in 2004 This is Volume I of six of a series on medical imaging systems

techniques and applications This subject area exemplifies a meaningful manifestation of the power of the technologies of the second industrial revolution The first chapter in this volume on cardiovascular systems emphasizes the importance of accurate measurements of cardiac shape and dynamics as they reflect the scope of cardiac diseases the major cause of mortality in developed countries today Cardiac imaging plays an important role in this regard and almost the only one in this clinical context

1993 IEEE International Symposium on Circuits and Systems, 1993

Digital Imaging and Deconvolution Enders A. Robinson, Sven Treitel, 2008 Digital Imaging and Deconvolution The ABCs of Seismic Exploration and Processing SEG Geophysical References Series No 15 covers the basic ideas and methods used in seismic processing concentrating on the fundamentals of seismic imaging and deconvolution Most chapters are followed by problem sets Some exercises supplement textual material others are meant to stimulate classroom discussions Text and exercises deal mostly with simple examples that can be solved with nothing more than pencil and paper The book covers wave motion digital imaging digital filtering various visualization aspects of the seismic reflection method sampling theory the frequency spectrum synthetic seismograms wavelets and wavelet processing deconvolution the need for continuing interaction between the seismic interpreter and the computer seismic attributes phase rotation and seismic attenuation The last of the 15 chapters provides a detailed mathematical overview Digital Imaging and Deconvolution nominated for the Association of Earth Science Editors award for best geoscience publication of 2008 2009 will interest professional geophysicists graduate students and upper level undergraduates in geophysics The book also will be helpful to scientists and engineers in other disciplines who use digital signal processing to analyze and image wave motion data in remote detection applications The methods described are important in optical imaging video imaging medical and biological imaging acoustical analysis radar and sonar

Advanced Signal Processing and Digital Noise Reduction Saeed V. Vaseghi, 2013-03-09

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