
Jerry M. Mendel

Maximum-Likelihood Deconvolution

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



Springer-Verlag

Maximum Likelihood Deconvolution A Journey Into Medoebased Signal Procebing

David A. Streight



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 **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

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 B cause 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 re create 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 at tractors have a conventionally simple description

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

Maximum-likelihood Deconvolution Jerry M. Mendel,1990-01-01 *International Books in Print 1990* Barbara Hopkinson,1990 *Dissertation Abstracts International* ,1983 Maximum-Likelihood Estimators for the Time and Frequency Differences of Arrival of Cyclostationary Digital Communications Signals David A. Streight,1999-06-01 Advanced techniques have been employed for decades in the location of emitted communications signals The use of cyclostationary maximum likelihood estimators MLE applied to time different of arrival TDOA and frequency difference of arrival FDOA techniques for target emitter location is a newly developed approach This dissertation provides an introduction to traditional TDOA and FDOA methods and the underlying cyclostationary theory of pseudo random signals A survey of current cyclostationary TDOA and FDOA methods the description of new maximum likelihood estimators MLEs and descriptions of Monte Carlo simulations follow this By comparing performance results to those of the Complex Ambiguity Function CAF it is shown that the new MLE s outperform the CAF in nearly all cases Also by comparison to the Cramer Rao lower bound the new MLE s provide a hint of the ultimate power of cyclostationary techniques over stationary techniques exceeding this stationary theoretical lower bound on performance in many cases Finally the new MLE s perform comparably in the measurement of TDOA to those cyclostationary algorithms previously derived when adjustments are made for the different signal environments used in the heritage work

Deconvolution & Unfolding: An Alternative Perspective Pasquale De Marco, Delves into the fascinating world of deconvolution and unfolding two powerful mathematical techniques used to extract meaningful information from data obscured by a known process Deconvolution and Unfolding An Alternative Perspective takes you on a comprehensive journey through these techniques exploring their applications in diverse fields such as image processing signal processing spectroscopy and geophysics Deconvolution the process of recovering a signal from its convolution with a known function is essential in image processing for removing blur caused by camera motion or lens imperfections It also plays a crucial role in signal processing for recovering signals distorted by noise or interference Unfolding on the other hand involves recovering a function from its convolution with a known operator This technique finds extensive use in spectroscopy to extract the underlying spectrum of a sample from the instrument's response function It is also employed in geophysics to recover the Earth's subsurface structure from seismic data While both deconvolution and unfolding are powerful tools they are also ill posed problems meaning that there is no unique solution and the solution is sensitive to noise and errors in the data To obtain stable and meaningful solutions regularization techniques are often used Deconvolution and Unfolding An Alternative Perspective provides a thorough exploration of these regularization techniques explaining their mechanisms and guiding readers in choosing the most appropriate technique for their specific problem With its comprehensive coverage of deconvolution and unfolding this book is an invaluable resource for researchers engineers and practitioners in various fields It offers a unique perspective that sets it apart from existing literature making it an essential guide for anyone seeking to delve deeper into these fascinating techniques If you like this book write a review

Mit and the Birth of Digital Signal Processing Enders Robinson, 2014-12-31 In the late 1950s the first transistorized digital computers were manufactured As a result the decade of the 1960s saw the conversion of the oil exploration industry from analog filtering to digital signal processing Digital signal processing and deconvolution made it possible to explore successfully in all areas of the Earth including the areas under the seas Deconvolution requires massive parallel processing The computer industry accommodated and developed special purpose digital signal processing DSP computers which at the time were called array processors also known as vector processors As time went on these DSP computers were replaced by microchips as were all digital computers In 1986 the National Academy of Engineering NAE of the United States of America elected Enders Robinson as member with the citation For pioneering contributions that have led to the evolution of seismic processing from hand digitization of the 1950s to today's custom deconvolution chip The hand digitization of the 1950s was the forerunner of what was to come Practically all communications today are done with digital data The telephone is digital the television is digital the cinema is digital the music is digital the camera is digital Now in the second decade of the twenty first century DSP chips are everywhere The deconvolution chip is the prototype digital signal processing DSP chip Usually the NAE credits new members for such things as innovative research or revolutionary discoveries Certainly such chips are vital but why would the NAE

mention a chip and not mention seemingly more important mathematical research The National Academy foresaw what many others did not foresee In 1986 the Academy realized that the era of mathematical numeral analysis was losing its position at the forefront of computing Instead the era of communication was at the beginning of its meteoric rise to ascendancy Communication requires a massive use of digital signal processing Today in 2014 digital signal processing is a powerful technology used everywhere This technology is universally possible because of inexpensive and tiny DSP Digital Signal Processing chips DSP chips are an integral part of audio and video systems television telephones cameras radar sonar transmission fiber cable automobiles airplanes ships space vehicles programmable heart pacemakers other medical devices and all types of automation in manufacturing and logistics Digital Signal Processing DSP chips are used to satisfy the insatiable needs for communication among people and for the regulation and control of machines and devices DSP chips take real world signals like position voice audio video pressure temperature and medical readings to process them digitally in order to produce the desired results Every time you use a mobile phone you are using a DSP chip Every time you drive an automobile you are using several dozen DSP chips The new medical devices that monitor you health all use DSP chips The birth of digital signal processing took place in the MIT Mathematics Department from 1950 to 1952 under the guidance of Prof Norbert Wiener The DSP chip uses the methods of digital signal processing that were run for the first time on the Whirlwind computer at MIT in 1952 This book takes you on a journey showing how this development evolved and led to the DSP chip This development took place because MIT President James R Killian challenged the conventional analog thinking of the time He stepped in and put up his presidential funds to support the DSP project that otherwise would have perished

The Whole Story Behind Blind Adaptive Equalizers/ Blind Deconvolution Monika Pinchas, 2012 It is well known that Intersymbol ISI Interference is a limiting factor in many communication environments where it causes an irreducible degradation of the bit error rate BER thus imposing an upper limit on the data symbol rate In order to overcome the ISI problem an equalizer is implemented in those systems Among the three types of equalizers non blind semi blind and blind the blind equalizer has the benefit of bandwidth saving and there is no need of going through a training phase Blind equalization algorithms are essentially adaptive filtering algorithms designed such that they do not require the external supply of a desired response to generate the error signal in the output of the adaptive equalization filter the algorithms generate an estimate of the desired response by applying a nonlinear transformation to sequences involved in the adaptation process This nonlinearity is designed to minimize a cost function that is implicitly based on higher order statistics HOS according to one approach or calculated directly according to the Bayes rules *The Whole Story behind Blind Adaptive Equalizers Blind Deconvolution* gives the readers a full understanding on the blind deconvolution the e book covers a variety of blind deconvolution equalization methods based on both cost functions and Bayes rules where simulation results are supplied to support the theory These include the Maximum Entropy density approximation technique and the Edgeworth Expansion

approach used in various blind equalizers It also describes the relationship between the cost function approach and the approach taken according to Bayes rules the e book deals also with the effect of various system parameters such as the step size parameter or the equalizer s tap length have on the obtained equalization performance This e book will be of particular interest to advanced communications engineering undergraduate students graduate students university instructors and signal processing researchers

A Note on the Properties of Maximum Likelihood Signal Power Estimation Roozbeh Atarius,Lunds universitet. Signal Processing Group,1995

Blind Deconvolution Simon S. Haykin,1994 This book is devoted to the study of the blind deconvolution problem where it is impractical to assume the availability of the system input It considers a variety of blind deconvolution equalization algorithms with computer simulation experiments to support the theory

Maximum Likelihood Estimation of Signal-to-noise Ratio Clyde Melvil Thomas,1967

Strong Consistency of Maximum Likelihood Parameter Estimation of Superimposed Exponential Signals in Noise Z. D. Bai,X. R. Chen,P. R. Krishnaiah,Y. H. Wu,L. C. Zhao,PITTSBURGH UNIV PA CENTER FOR MULTIVARIATE ANALYSIS.,1987

Consider the model of multiple superimposed exponential signals in additive Gaussian noise $y(t) = \sum_{i=1}^p s_i e^{j\lambda_i t}$ λ_i sub i to the t power $e^{j\lambda_i t}$ $0 \leq t \leq 1$ $n \times 1$ $j \times 1$ N Keywords include Consistency Exponential rate Maximum likelihood estimate Signal processing

Digital Signal Processing with Kernel Methods Jose Luis Rojo-Alvarez,Manel Martinez-Ramon,Jordi Munoz-Mari,Gustau Camps-Valls,2017-12-22 A realistic and comprehensive review of joint approaches to machine learning and signal processing algorithms with application to communications multimedia and biomedical engineering systems Digital Signal Processing with Kernel Methods reviews the milestones in the mixing of classical digital signal processing models and advanced kernel machines statistical learning tools It explains the fundamental concepts from both fields of machine learning and signal processing so that readers can quickly get up to speed in order to begin developing the concepts and application software in their own research Digital Signal Processing with Kernel Methods provides a comprehensive overview of kernel methods in signal processing without restriction to any application field It also offers example applications and detailed benchmarking experiments with real and synthetic datasets throughout Readers can find further worked examples with Matlab source code on a website developed by the authors <http://github.com/DSPKM> Presents the necessary basic ideas from both digital signal processing and machine learning concepts Reviews the state of the art in SVM algorithms for classification and detection problems in the context of signal processing Surveys advances in kernel signal processing beyond SVM algorithms to present other highly relevant kernel methods for digital signal processing An excellent book for signal processing researchers and practitioners Digital Signal Processing with Kernel Methods will also appeal to those involved in machine learning and pattern recognition

An Application of Homomorphic Deconvolution to Loran-C Signal Processing Robert John Wenzel,1974

Maximum Likelihood Decoding of Signal in Multipath T. Maseng,O. Trandem,ELAB-RUNIT.,1989

Quasi Maximum Likelihood Blind Deconvolution of Images Using Optimal Sparse

Representations Alexander Bronstein, Tekhniyon, Makhon tekhnologi le-Yisra'el. Department of Electrical Engineering, Tekhniyon, Makhon tekhnologi le-Yisra'el. Fakultah le-handasat hashmal. Merkaz le-tekhnoogyot tikshore u-meda, Irwin and Joan Jacobs Center for Communication and Information Technologies, 2003 **Performance of the Maximum Likelihood Estimator for Small Signal to Noise Ratio Signals in White Gaussian Noise** Sin Yong Ng, 1983

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