BLIND ESTIMATION USING HIGHER-ORDER STATISTICS

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Hemanth Mullar Srikantaiah

Blind Estimation Using Higher Order Statistics:

  Blind Estimation Using Higher-Order Statistics Asoke Nandi,1999-01-31 In the signal processing research community a great deal of progress in higher order statistics HOS began in the mid 1980s These last fifteen years have witnessed a large number of theoretical developments as well as real applications Blind Estimation Using Higher Order Statistics focuses on the blind estimation area and records some of the major developments in this field Blind Estimation Using Higher Order Statistics is a welcome addition to the few books on the subject of HOS and is the first major publication devoted to covering blind estimation using HOS The book provides the reader with an introduction to HOS and goes on to illustrate its use in blind signal equalisation which has many applications including mobile communications blind system identification and blind sources separation a generic problem in signal processing with many applications including radar sonar and communications There is also a chapter devoted to robust cumulant estimation an important problem where HOS results have been encouraging Blind Estimation Using Higher Order Statistics is an invaluable reference for researchers professionals and graduate students working in signal processing and related areas   **Blind Estimation Using Higher-Order Statistics** Asoke Kumar Nandi,2013-04-17 In the signal processing research community a great deal of progress in higher order statistics HOS began in the mid 1980s These last fifteen years have witnessed a large number of theoretical developments as well as real applications Blind Estimation Using Higher Order Statistics focuses on the blind estimation area and records some of the major developments in this field Blind Estimation Using Higher Order Statistics is a welcome addition to the few books on the subject of HOS and is the first major publication devoted to covering blind estimation using HOS The book provides the reader with an introduction to HOS and goes on to illustrate its use in blind signal equalisation which has many applications including mobile communications blind system identification and blind sources separation a generic problem in signal processing with many applications including radar sonar and communications There is also a chapter devoted to robust cumulant estimation an important problem where HOS results have been encouraging Blind Estimation Using Higher Order Statistics is an invaluable reference for researchers professionals and graduate students working in signal processing and related areas   **Semi Blind Channel Estimation Using Second Order Statistics and Its Application to Time Reversal Space Time Block Codes** Hemanth Mullar Srikantaiah,2006
  Statistical Signal Processing T. Chonavel,2012-12-06 Modern information systems must handle huge amounts of data having varied natural or technological origins Automated processing of these increasing signal loads requires the training of specialists capable of formalising the problems encountered This book supplies a formalised concise presentation of the basis of statistical signal processing Equal emphasis is placed on approaches related to signal modelling and to signal estimation In order to supply the reader with the desirable theoretical fundamentals and to allow him to make progress in the discipline the results presented here are carefully justified The representation of random signals in the Fourier domain and their

filtering are considered These tools enable linear prediction theory and related classical filtering techniques to be addressed in a simple way The spectrum identification problem is presented as a first step toward spectrum estimation which is studied in non parametric and parametric frameworks The later chapters introduce synthetically further advanced techniques that will enable the reader to solve signal processing problems of a general nature Rather than supplying an exhaustive description of existing techniques this book is designed for students scientists and research engineers interested in statistical signal processing and who need to acquire the necessary grounding to address the specific problems with which they may be faced It also supplies a well organized introduction to the literature   Adaptive Signal Processing in Wireless Communications Mohamed Ibnkahla,2017-12-19 Adaptive techniques play a key role in modern wireless communication systems The concept of adaptation is emphasized in the Adaptation in Wireless Communications Series through a unified framework across all layers of the wireless protocol stack ranging from the physical layer to the application layer and from cellular systems to next generation wireless networks This specific volume Adaptive Signal Processing in Wireless Communications is devoted to adaptation in the physical layer It gives an in depth survey of adaptive signal processing techniques used in current and future generations of wireless communication systems Featuring the work of leading international experts it covers adaptive channel modeling identification and equalization adaptive modulation and coding adaptive multiple input multiple output MIMO systems and cooperative diversity It also addresses other important aspects of adaptation in wireless communications such as hardware implementation reconfigurable processing and cognitive radio A second volume in the series Adaptation and Cross layer Design in Wireless Networks cat no 46039 is devoted to adaptation in the data link network and application layers   Independent Component Analysis Aapo Hyvärinen,Juha Karhunen,Erkki Oja,2004-03-22 A comprehensive introduction to ICA for students and practitioners Independent Component Analysis ICA is one of the most exciting new topics in fields such as neural networks advanced statistics and signal processing This is the first book to provide a comprehensive introduction to this new technique complete with the fundamental mathematical background needed to understand and utilize it It offers a general overview of the basics of ICA important solutions and algorithms and in depth coverage of new applications in image processing telecommunications audio signal processing and more Independent Component Analysis is divided into four sections that cover General mathematical concepts utilized in the book The basic ICA model and its solution Various extensions of the basic ICA model Real world applications for ICA models Authors Hyvarinen Karhunen and Oja are well known for their contributions to the development of ICA and here cover all the relevant theory new algorithms and applications in various fields Researchers students and practitioners from a variety of disciplines will find this accessible volume both helpful and informative   Academic Press Library in Signal Processing Fulvio Gini,Nikolaos D. Sidiropoulos,2013-09-10 This second 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

communications and radar engineering 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   Signal Processing for Mobile Communications Handbook Mohamed Ibnkahla,2004-08-16 In recent years a wealth of research has emerged addressing various aspects of mobile communications signal processing New applications and services are continually arising and future mobile communications offer new opportunities and exciting challenges for signal processing The Signal Processing for Mobile Communications Handbook provi   *Blind Channel Identification Using Higher Order Statistics* Jing Liang,2002   *Matrix and Tensor Decompositions in Signal Processing, Volume 2* Gérard Favier,2021-08-31 The second volume will deal with a presentation of the main matrix and tensor decompositions and their properties of uniqueness as well as very useful tensor networks for the analysis of massive data Parametric estimation algorithms will be presented for the identification of the main tensor decompositions After a brief historical review of the compressed sampling methods an overview of the main methods of retrieving matrices and tensors with missing data will be performed under the low rank hypothesis Illustrative examples will be provided

   Wireless Communications Andreas F. Molisch,2022-11-15 An in depth and comprehensive treatment of wireless communication technology ranging from the fundamentals to the newest research results The expanded and completely revised Third Edition of Wireless Communications delivers an essential text in wireless communication technology that combines mathematical descriptions with intuitive explanations of the physical facts that enable readers to acquire a deep understanding of the subject This latest edition includes brand new sections on cutting edge research topics such as massive MIMO polar codes heterogeneous networks non orthogonal multiple access as well as 5G cellular standards WiFi 6 and Bluetooth Low Energy Together with the re designed descriptions of fundamentals such as fading OFDM and multiple access it provides a thorough treatment of all the technologies that underlie fifth generation and beyond systems A complementary companion website provides readers with a wealth of old and new material including instructor resources available upon request Readers will also find A thorough introduction to the applications and requirements of modern wireless services including video streaming virtual reality and Internet of Things Comprehensive explorations of wireless propagation mechanisms and channel models ranging from Rayleigh fading to advanced models for MIMO communications Detailed discussions of single user communications fundamentals including modern coding techniques multi carrier communications and single user MIMO Extensive description of multi user communications including packet radio systems CDMA scheduling

admission control cellular and ad hoc network design and multi user MIMO In depth examinations of advanced topics in wireless communication like speech and video coding cognitive radio NOMA network coding and wireless localization A comprehensive description of the key wireless standards including LTE 5G WiFi Bluetooth and an outlook to Beyond 5G systems Perfect for advanced undergraduate and graduate students with a basic knowledge of standard communications Wireless Communications will also earn a place in the libraries of researchers and system designers seeking a one stop resource on wireless communication technology   *Adaptive and Natural Computing Algorithms* Bartlomiej Beliczynski,Andrzej Dzielinski,Marcin Iwanowski,Bernadete Ribeiro,2007-07-03 This two volume set constitutes the refereed proceedings of the 8th International Conference on Adaptive and Natural Computing Algorithms ICANNGA 2007 held in Warsaw Poland in April 2007 Coverage in the first volume includes evolutionary computation genetic algorithms and particle swarm optimization The second volume covers neural networks support vector machines biomedical signal and image processing biometrics computer vision   **Data Driven Model Learning for Engineers** Guillaume Mercère,2023-08-09 The main goal of this comprehensive textbook is to cover the core techniques required to understand some of the basic and most popular model learning algorithms available for engineers then illustrate their applicability directly with stationary time series A multi step approach is introduced for modeling time series which differs from the mainstream in the literature Singular spectrum analysis of univariate time series trend and seasonality modeling with least squares and residual analysis and modeling with ARMA models are discussed in more detail As applications of data driven model learning become widespread in society engineers need to understand its underlying principles then the skills to develop and use the resulting data driven model learning solutions After reading this book the users will have acquired the background the knowledge and confidence to i read other model learning textbooks more easily ii use linear algebra and statistics for data analysis and modeling iii explore other fields of applications where model learning from data plays a central role Thanks to numerous illustrations and simulations this textbook will appeal to undergraduate and graduate students who need a first course in data driven model learning It will also be useful for practitioners thanks to the introduction of easy to implement recipes dedicated to stationary time series model learning Only a basic familiarity with advanced calculus linear algebra and statistics is assumed making the material accessible to students at the advanced undergraduate level   **Computational and Ambient Intelligence** Francisco Sandoval,Alberto Prieto,Joan Cabestany,Manuel Graña,2007-09-21 This book constitutes the refereed proceedings of the 9th International Work Conference on Artificial Neural Networks IWANN 2007 held in San Sebasti n Spain in June 2007 Coverage includes theoretical concepts and neurocomputational formulations evolutionary and genetic algorithms data analysis signal processing robotics and planning motor control as well as neural networks and other machine learning methods in cancer research   Vibration-based Condition Monitoring Robert Bond Randall,2021-07-06 Vibration based Condition Monitoring Stay up to date on the newest developments in machine condition

monitoring with this brand new resource from an industry leader The newly revised Second Edition of Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications delivers a thorough update to the most complete discussion of the field of machine condition monitoring The distinguished author offers readers new sections on diagnostics of variable speed machines including wind turbines as well as new material on the application of cepstrum analysis to the separation of forcing functions structural model properties and the simulation of machines and faults The book provides improved methods of order tracking based on phase demodulation of reference signals and new methods of determining instantaneous machine speed from the vibration response signal Readers will also benefit from an insightful discussion of new methods of calculating the Teager Kaiser Energy Operator TKEO using Hilbert transform methods in the frequency domain With a renewed emphasis on the newly realized possibility of making virtual instruments readers of Vibration based Condition Monitoring will benefit from the wide variety of new and updated topics like A comprehensive introduction to machine condition monitoring including maintenance strategies condition monitoring methods and an explanation of the basic problem of condition monitoring An exploration of vibration signals from rotating and reciprocating machines including signal classification and torsional vibrations An examination of basic and newly developed signal processing techniques including statistical measures Fourier analysis Hilbert transform and demodulation and digital filtering pointing out the considerable advantages of non causal processing since causal processing gives no benefit for condition monitoring A discussion of fault detection diagnosis and prognosis in rotating and reciprocating machines in particular new methods using fault simulation since big data cannot provide sufficient data for late stage fault development Perfect for machine manufacturers who want to include a machine monitoring service with their product Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications will also earn a place in university and research institute libraries where there is an interest in machine condition monitoring and diagnostics *Machine Learning and Intelligent Communications* Limin Meng,Yan Zhang,2018-10-12 This volume constitutes the refereed post conference proceedings of the Third International Conference on Machine Learning and Intelligent Communications MLICOM 2018 held in Hangzhou China in July 2018 The 66 revised full papers were carefully selected from 102 submissions The papers are organized thematically in machine learning intelligent positioning and navigation intelligent multimedia processing and security wireless mobile network and security cognitive radio and intelligent networking IoT intelligent satellite communications and networking green communication and intelligent networking ad hoc and sensor networks resource allocation in wireless and cloud networks signal processing in wireless and optical communications and intelligent cooperative communications and networking **Narrowband Array Signal Processing Using Higher-order Statistics** Norman Yuen,1995 *Image Segmentation* Tao Lei,Asoke K. Nandi,2022-10-03 Image Segmentation Summarizes and improves new theory methods and applications of current image segmentation approaches written by leaders in the field The process of image segmentation

divides an image into different regions based on the characteristics of pixels resulting in a simplified image that can be more efficiently analyzed Image segmentation has wide applications in numerous fields ranging from industry detection and bio medicine to intelligent transportation and architecture Image Segmentation Principles Techniques and Applications is an up to date collection of recent techniques and methods devoted to the field of computer vision Covering fundamental concepts new theories and approaches and a variety of practical applications including medical imaging remote sensing fuzzy clustering and watershed transform In depth chapters present innovative methods developed by the authors such as convolutional neural networks graph convolutional networks deformable convolution and model compression to assist graduate students and researchers apply and improve image segmentation in their work Describes basic principles of image segmentation and related mathematical methods such as clustering neural networks and mathematical morphology Introduces new methods for achieving rapid and accurate image segmentation based on classic image processing and machine learning theory Presents techniques for improved convolutional neural networks for scene segmentation object recognition and change detection etc Highlights the effect of image segmentation in various application scenarios such as traffic image analysis medical image analysis remote sensing applications and material analysis etc Image Segmentation Principles Techniques and Applications is an essential resource for undergraduate and graduate courses such as image and video processing computer vision and digital signal processing as well as researchers working in computer vision and image analysis looking to improve their techniques and methods *Condition Monitoring with Vibration Signals* Hosameldin Ahmed,Asoke K. Nandi,2020-01-07 Provides an extensive up to date treatment of techniques used for machine condition monitoring Clear and concise throughout this accessible book is the first to be wholly devoted to the field of condition monitoring for rotating machines using vibration signals It covers various feature extraction feature selection and classification methods as well as their applications to machine vibration datasets It also presents new methods including machine learning and compressive sampling which help to improve safety reliability and performance Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines starts by introducing readers to Vibration Analysis Techniques and Machine Condition Monitoring MCM It then offers readers sections covering Rotating Machine Condition Monitoring using Learning Algorithms Classification Algorithms and New Fault Diagnosis Frameworks designed for MCM Readers will learn signal processing in the time frequency domain methods for linear subspace learning and the basic principles of the learning method Artificial Neural Network ANN They will also discover recent trends of deep learning in the field of machine condition monitoring new feature learning frameworks based on compressive sampling subspace learning techniques for machine condition monitoring and much more Covers the fundamental as well as the state of the art approaches to machine condition monitoringguiding readers from the basics of rotating machines to the generation of knowledge using vibration signals Provides new methods including machine learning and compressive sampling which

offer significant improvements in accuracy with reduced computational costs Features learning algorithms that can be used for fault diagnosis and prognosis Includes previously and recently developed dimensionality reduction techniques and classification algorithms Condition Monitoring with Vibration Signals Compressive Sampling and Learning Algorithms for Rotating Machines is an excellent book for research students postgraduate students industrial practitioners and researchers

    <u>Signal Processing, Image Processing and Pattern Recognition,</u> Dominik Slezak,Sankar Pal,Byeong-Ho Kang,Junzhong Gu,Hideo Kuroda,Tai-hoon Kim,2009-11-24 As future generation information technology FGIT becomes specialized and fr mented it is easy to lose sight that many topics in FGIT have common threads and because of this advances in one discipline may be transmitted to others Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole Of particular interest are hybrid solutions that c bine ideas taken from multiple disciplines in order to achieve something more signi cant than the sum of the individual parts Through such hybrid philosophy a new principle can be discovered which has the propensity to propagate throughout mul faceted disciplines FGIT 2009 was the first mega conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT conducted by separate scientific committees but coordinated in order to expose the most important contributions It included the following international conferences Advanced Software Engineering and Its Applications ASEA Bio Science and Bio Technology BSBT Control and Automation CA Database Theory and Application DTA D aster Recovery and Business Continuity DRBC published independently Future G eration Communication and Networking FGCN that was combined with Advanced Communication and Networking ACN Grid and Distributed Computing GDC M timedia Computer Graphics and Broadcasting MulGraB Security Technology SecTech Signal Processing Image Processing and Pattern Recognition SIP and and e Service Science and Technology UNESST

Decoding **Blind Estimation Using Higher Order Statistics**: Revealing the Captivating Potential of Verbal Expression

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