

Springer Topics in Signal Processing

Boaz Rafaely

Fundamentals of Spherical Array Processing

Second Edition



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Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing

**Ville Pulkki, Symeon Delikaris-
Manias, Archontis Politis**



Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing:

Fundamentals of Spherical Array Processing Boaz Rafaely, 2018-09-27 This book provides a comprehensive introduction to the theory and practice of spherical microphone arrays and was written for graduate students researchers and engineers who work with spherical microphone arrays in a wide range of applications The new edition includes additions and modifications and references supplementary Matlab code to provide the reader with a straightforward start for own implementations The book is also accompanied by a Matlab manual which explains how to implement the examples and simulations presented in the book The first two chapters provide the reader with the necessary mathematical and physical background including an introduction to the spherical Fourier transform and the formulation of plane wave sound fields in the spherical harmonic domain In turn the third chapter covers the theory of spatial sampling employed when selecting the positions of microphones to sample sound pressure functions in space Subsequent chapters highlight various spherical array configurations including the popular rigid sphere based configuration Beamforming spatial filtering in the spherical harmonics domain including axis symmetric beamforming and the performance measures of directivity index and white noise gain are introduced and a range of optimal beamformers for spherical arrays including those that achieve maximum directivity and maximum robustness are developed along with the Dolph Chebyshev beamformer The final chapter discusses more advanced beamformers such as MVDR minimum variance distortionless response and LCMV linearly constrained minimum variance types which are tailored to the measured sound field Mathworks kindly distributes the Matlab sources for this book on <https://www.mathworks.com/matlabcentral/fileexchange/68655-fundamentals-of-spherical-array-processing>

Multidimensional Signals and Systems Rudolf Rabenstein, Maximilian Schäfer, 2023-07-24 This book covers the theory of multidimensional signals and systems and related practical aspects It extends the properties and mathematical tools of one dimensional signals and systems to multiple dimensions and covers relevant timeless topics including multidimensional transformations multidimensional sampling as well as discrete multidimensional systems A special emphasis is placed on physical systems described by partial differential equations the construction of suitable integral transformations and the implementation of the corresponding discrete time algorithms To this end signal spaces and functional transformations are introduced at a mathematical level provided by undergraduate programs in engineering and science The presentation takes a comprehensive illustrative and educational approach without reference to a particular application field Instead the book builds a solid theoretical concept of multidimensional signals and systems and shows the application to various problems relevant for practical scenarios

Parametric Time-Frequency Domain Spatial Audio Ville Pulkki, Simeon Delikaris-Manias, Archontis Politis, 2017-12-26 A comprehensive guide that addresses the theory and practice of spatial audio This book provides readers with the principles and best practices in spatial audio signal processing It describes how sound fields and their perceptual attributes are captured and analyzed within the time frequency domain how essential

representation parameters are coded and how such signals are efficiently reproduced for practical applications The book is split into four parts starting with an overview of the fundamentals It then goes on to explain the reproduction of spatial sound before offering an examination of signal dependent spatial filtering The book finishes with coverage of both current and future applications and the direction that spatial audio research is heading in Parametric Time frequency Domain Spatial Audio focuses on applications in entertainment audio including music home cinema and gaming covering the capturing and reproduction of spatial sound as well as its generation transduction representation transmission and perception This book will teach readers the tools needed for such processing and provides an overview to existing research It also shows recent up to date projects and commercial applications built on top of the systems Provides an in depth presentation of the principles past developments state of the art methods and future research directions of spatial audio technologies Includes contributions from leading researchers in the field Offers MATLAB codes with selected chapters An advanced book aimed at readers who are capable of digesting mathematical expressions about digital signal processing and sound field analysis Parametric Time frequency Domain Spatial Audio is best suited for researchers in academia and in the audio industry

Theory and Applications of Spherical Microphone Array Processing Daniel P. Jarrett, Emanuel A.P. Habets, Patrick A. Naylor, 2016-08-26 This book presents the signal processing algorithms that have been developed to process the signals acquired by a spherical microphone array Spherical microphone arrays can be used to capture the sound field in three dimensions and have received significant interest from researchers and audio engineers Algorithms for spherical array processing are different to corresponding algorithms already known in the literature of linear and planar arrays because the spherical geometry can be exploited to great beneficial effect The authors aim to advance the field of spherical array processing by helping those new to the field to study it efficiently and from a single source as well as by offering a way for more experienced researchers and engineers to consolidate their understanding adding either or both of breadth and depth The level of the presentation corresponds to graduate studies at MSc and PhD level This book begins with a presentation of some of the essential mathematical and physical theory relevant to spherical microphone arrays and of an acoustic impulse response simulation method which can be used to comprehensively evaluate spherical array processing algorithms in reverberant environments The chapter on acoustic parameter estimation describes the way in which useful descriptions of acoustic scenes can be parameterized and the signal processing algorithms that can be used to estimate the parameter values using spherical microphone arrays Subsequent chapters exploit these parameters including in particular measures of direction of arrival and of diffuseness of a sound field The array processing algorithms are then classified into two main classes each described in a separate chapter These are signal dependent and signal independent beamforming algorithms Although signal dependent beamforming algorithms are in theory able to provide better performance compared to the signal independent algorithms they are currently rarely used in practice The main reason for this is that the statistical information

required by these algorithms is difficult to estimate In a subsequent chapter it is shown how the estimated acoustic parameters can be used in the design of signal dependent beamforming algorithms This final step closes at least in part the gap between theory and practice *Frontiers in Signal Processing Editors' Choice 2022* Augusto Sarti,Sri Krishnan,Frederic Dufaux,Fulvio Gini,Wenwu Wang,Yonghui Li,Dirk Slock,Asoke Nandi,2023-04-05

Acoustic Waves Generated by Parametric Array Loudspeakers Jiaxin Zhong,Xiaojun Qiu,2024-08-13 Parametric array loudspeakers PALs are capable of generating highly directional audio beams from nonlinear interactions of intense airborne ultrasound waves This unique capability holds great potential in audio engineering This book systematically introduces the physical principles of acoustics waves generated by PALs along with the commonly used and the state of the art numerical models such as the Westervelt model the convolution directivity model the Gaussian beam expansion method and the spherical wave expansion method The properties of sound fields generated by PALs are analyzed Also analyzed are various phenomena including the reflection of acoustics waves generated by PALs from a surface transmission through a thin partition scattering by a rigid sphere and propagation in rooms Furthermore the steering and focusing of acoustics waves generated by PALs and potential applications of PALs in active sound control are investigated Finally the implementation issues of hardware signal processing techniques measurement and safety are discussed The book is tailored to meet the needs of researchers in this field as well as audio practitioners and acoustics engineers *Ambisonics* Franz Zotter,Matthias Frank,2019-04-30 This open access book provides a concise explanation of the fundamentals and background of the surround sound recording and playback technology Ambisonics It equips readers with the psychoacoustical signal processing acoustical and mathematical knowledge needed to understand the inner workings of modern processing utilities special equipment for recording manipulation and reproduction in the higher order Ambisonic format The book comes with various practical examples based on free software tools and open scientific data for reproducible research The book s introductory section offers a perspective on Ambisonics spanning from the origins of coincident recordings in the 1930s to the Ambisonic concepts of the 1970s as well as classical ways of applying Ambisonics in first order coincident sound scene recording and reproduction that have been practiced since the 1980s As from time to time the underlying mathematics become quite involved but should be comprehensive without sacrificing readability the book includes an extensive mathematical appendix The book offers readers a deeper understanding of Ambisonic technologies and will especially benefit scientists audio system and audio recording engineers In the advanced sections of the book fundamentals and modern techniques as higher order Ambisonic decoding 3D audio effects and higher order recording are explained Those techniques are shown to be suitable to supply audience areas ranging from studio sized to hundreds of listeners or headphone based playback regardless whether it is live interactive or studio produced 3D audio material

[Transforms and Applications Handbook](#) Alexander D. Poularikas,2018-09-03 Updating the original *Transforms and Applications Handbook* Third Edition solidifies its place as the complete resource on those mathematical transforms most

frequently used by engineers scientists and mathematicians Highlighting the use of transforms and their properties this latest edition of the bestseller begins with a solid introduction to signals and systems including properties of the delta function and some classical orthogonal functions It then goes on to detail different transforms including lapped Mellin wavelet and Hartley varieties Written by top experts each chapter provides numerous examples and applications that clearly demonstrate the unique purpose and properties of each type The material is presented in a way that makes it easy for readers from different backgrounds to familiarize themselves with the wide range of transform applications Revisiting transforms previously covered this book adds information on other important ones including Finite Hankel Legendre Jacobi Gegenbauer Laguerre and Hermite Fraction Fourier Zak Continuous and discrete Chirp Fourier Multidimensional discrete unitary Hilbert Huang Most comparable books cover only a few of the transforms addressed here making this text by far the most useful for anyone involved in signal processing including electrical and communication engineers mathematicians and any other scientist working in this field

Broadband Array Processing Shefeng Yan, 2019-05-21 This book describes the background and technology of array signal modeling It presents the concept and formulation of beamformers and discusses several commonly used array performance measures It also introduces two traditional types of beamformers delay and sum and optimum beamformers Chapter 1 includes background information on array processing while Chapters 2 and 3 discuss the DFT based frequency domain implementation of a broadband beamformer and the design of subband beamformers for frequency domain broadband beamformers Chapter 4 presents the FIR based time domain implementation of the broadband beamformer where the FIR beamformer is designed by separately designing the subband beamformers and the corresponding FIR filters The techniques for optimal design of the FIR beamformer are developed in Chapter 5 and Chapters 6 and 7 focus on the modal beamforming problem for circular arrays for the frequency domain modal beamformer and the time domain modal beamformer Lastly the final chapters present frequency domain and time domain modal beamformers for spherical arrays

Array Processing Jacob Benesty, Israel Cohen, Jingdong Chen, 2019-02-28 The focus of this book is on array processing and beamforming with Kronecker products It considers a large family of sensor arrays that allow the steering vector to be decomposed as a Kronecker product of two steering vectors of smaller virtual arrays Instead of directly designing a global beamformer for the original array once the steering vector has been decomposed smaller virtual beamformers are designed and separately optimized for each virtual array This means the matrices that need to be inverted are smaller which increases the robustness of the beamformers and reduces the size of the observations The book explains how to perform beamforming with Kronecker product filters using an unconventional approach It shows how the Kronecker product formulation can be used to derive fixed adaptive and differential beamformers with remarkable flexibility Furthermore it demonstrates how fixed and adaptive beamformers can be intelligently combined optimally exploiting the advantages of both The problem of spatiotemporal signal enhancement is also addressed and readers will learn how to

perform Kronecker product filtering in this context **Applied Mechanics Reviews** ,1948 **Subject Guide to Books in Print** ,1993 **Array Signal Processing** S. Unnikrishna Pillai,1989 *International Aerospace Abstracts* ,1979 *Array Signal Processing* Don H. Johnson,Dan E. Dudgeon,1993 This is the first book on the market to bring together material on array signal processing in a coherent fashion with uniform notation and convention of models KEY TOPICS Using extensive examples and problems it presents not only the theories of propagating waves and conventional array processing algorithms but also the underlying ideas of adaptive array processing and multi array tracking algorithms This manual will be valuable to engineers who wish to practice and advance their careers in the array signal processing field **Adaptive Array Signal Processing Using the Concentric Ring Array and the Spherical Array** Luis M. Vicente,2009 This thesis introduces new methods for partial adaptive beamforming using concentric ring and spherical arrays for acoustic signals on a partially known interference environment We propose novel methods to choose intra ring weights that take advantage of the prior knowledge about the characteristics of some of the interferences without reducing the beamformer's degrees of freedom The appropriate amount of prior knowledge included in the design is in the form of a penalty factor value The inter ring weights are adaptively obtained to cancel the unknown interferences Then we propose the optimization of the penalty factor that is automatically obtained to minimize the amount of residual error in the beamformer output We propose the novel idea of combining element space along with beamspace beamforming techniques where the prior knowledge is added in form of beamspace beams pointing towards the interferences with known characteristics The sub arrays that use element space beamforming reduce the interferences with unknown characteristics The beamformer is found to be robust against interference uncertainties and presents a consistent behavior We then extend the element space partial adaptive beamformer to the spherical array We suggest two novel sensor arrangements for narrowband partial adaptive beamforming The proposed design achieves huge computational savings faster convergence and similar performance than that of the fully adaptive beamformer We present the design of a broadband beamformer using array nesting Finally we introduce two robust algorithms against sensor misplacement The proposed algorithms use a better distortionless constraint that accounts for the sensor position errors contrary to the classical constraint which does not include the errors **Adaptive Array Systems** Ben Allen,M. Ghavami,2006-02-03 In the last fifty years extensive studies have been carried out worldwide in the field of adaptive array systems However far from being a mature technology with little research left to tackle there is seemingly unlimited scope to develop the fundamental characteristics and applications of adaptive antennas for future 3G and 4G mobile communications systems ultra wideband wireless and satellite and navigation systems and this informative text shows you how Provides an accessible resource on adaptive array fundamentals as well as coverage of adaptive algorithms and advanced topics Analyses the performance of various wideband beamforming techniques in wideband array processing Comprehensively covers implementation issues related to such elements as circular arrays channel modelling and transmit

beam forming highlighting the challenges facing a designer during the development phase Supports practical implementation considerations with detailed case studies on wideband arrays radar sonar and biomedical imaging terrestrial wireless systems and satellite communication systems Includes examples and problems throughout to aid understanding Companion website features Solutions Manual Matlab Programs and Electronic versions of some figures Adaptive Array Systems is essential reading for senior undergraduate and postgraduate students and researchers in the field of adaptive array systems It will also have instant appeal to engineers and designers in industry engaged in developing and deploying the technology This volume will also be invaluable to those working in radar sonar and bio medical applications

Array Processing and Digital Signal Processing Advanced Micro Devices,1986 **Array Processing and Digital Signal Processing Handbook** ,1986 *Practical Array Processing* Mark C. Sullivan,2009

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Table of Contents Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing

1. Understanding the eBook Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - The Rise of Digital Reading Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Personalized Recommendations
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing User Reviews and Ratings
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing and Bestseller Lists

5. Accessing Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing Free and Paid eBooks
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing Public Domain eBooks
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing eBook Subscription Services
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing Budget-Friendly Options
6. Navigating Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing Compatibility with Devices
 - Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Highlighting and Note-Taking Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Interactive Elements Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
8. Staying Engaged with Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
9. Balancing eBooks and Physical Books Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Setting Reading Goals Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Fact-Checking eBook Content of Fundamentals Of Spherical Array Processing Springer Topics In Signal Processing
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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