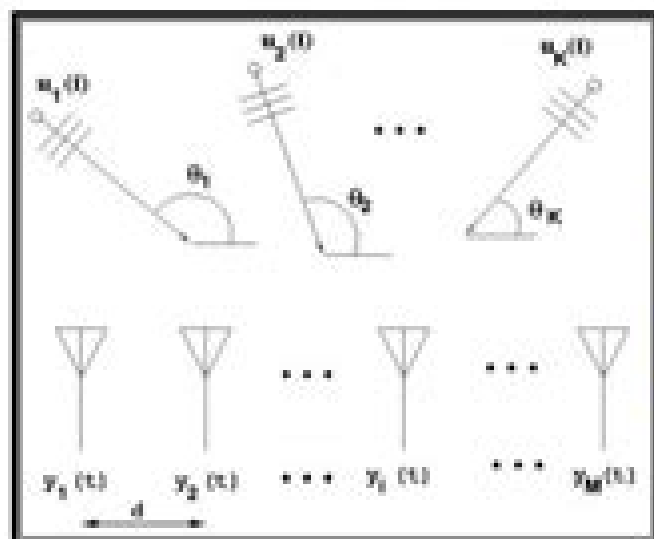


A Motivating Application: Sensor Array Signal Processing

- Goal: Estimate directions of arrival of acoustic sources using a microphone array

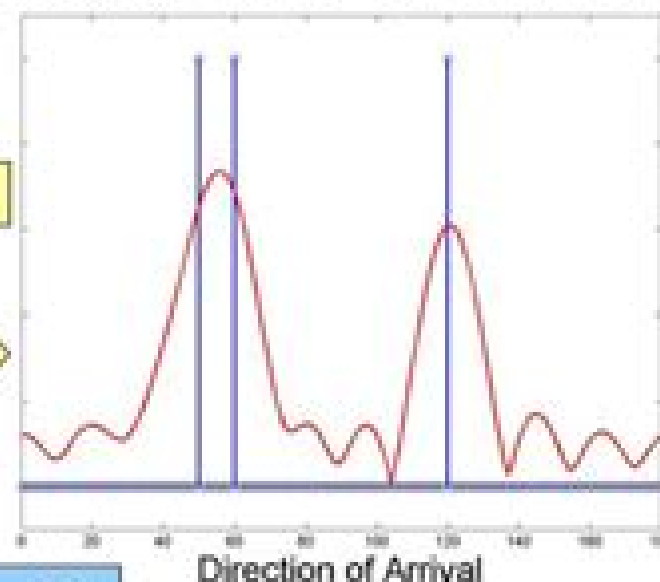
Data collection setup

Underlying "sparse" spatial spectrum f



Forward

Inverse



$$y = Af^*$$

Sensor Array Signal Processing

Prabhakar S. Naidu



Sensor Array Signal Processing:

Sensor Array Signal Processing Prabhakar S. Naidu, 2009-06-08 Since publication of the first edition of *Sensor Array Signal Processing* in 2000 the field it heralded has come of age Sensor arrays helped usher in the age of wireless communication by meeting the increasing capacity requirements of ever growing wireless networks but that is only one example of the number of uses served by this valuable technology

Array Signal Processing S. Unnikrishna Pillai, 2012-12-06 This book is intended as an introduction to array signal processing where the principal objectives are to make use of the available multiple sensor information in an efficient manner to detect and possibly estimate the signals and their parameters present in the scene The advantages of using an array in place of a single receiver have extended its applicability into many fields including radar sonar communications astronomy seismology and ultrasonics The primary emphasis here is to focus on the detection problem and the estimation problem from a signal processing viewpoint Most of the contents are derived from readily available sources in the literature although a certain amount of original material has been included This book can be used both as a graduate textbook and as a reference book for engineers and researchers The material presented here can be readily understood by readers having a background in basic probability theory and stochastic processes A preliminary course in detection and estimation theory though not essential may make the reading easy In fact this book can be used in a one semester course following probability theory and stochastic processes

Sensor Array Signal Processing Hamid Krim, Mats Viberg, Center for Intelligent Control Systems (U.S.), Massachusetts Institute of Technology. Laboratory for Information and Decision Systems, 1995

Distributed Sensor Arrays Prabhakar S. Naidu, 2017-09-22 Localization of transmitters and receiving sensors is achieved by measuring radiation emitted by a source to a set of sensors which are either on a definite pattern known as an array or one randomly located at irregular points known as a distributed sensor array This book discusses how to determine the position of sensors and transmit information to a central node also known as the anchor node Time of arrival time difference of arrival frequency time of arrival and strength of received signal are also covered The reader will learn effective algorithms and implementation as well as numerical examples with the inclusion of lab experiments It discusses time synchronization including the rotating laser beam to measure distance in detail

Statistical Nested Sensor Array Signal Processing Keyong Han, 2015 Source number detection and direction of arrival DOA estimation are two major applications of sensor arrays Both applications are often confined to the use of uniform linear arrays ULAs which is expensive and difficult to yield wide aperture Besides a ULA with N scalar sensors can resolve at most $N-1$ sources On the other hand a systematic approach was recently proposed to achieve $O(N^2)$ degrees of freedom DOFs using $O(N)$ sensors based on a nested array which is obtained by combining two or more ULAs with successively increased spacing This dissertation will focus on a fundamental study of statistical signal processing of nested arrays Five important topics are discussed extending the existing nested array strategies to more practical scenarios Novel signal models and

algorithms are proposed First based on the linear nested array we consider the problem for wideband Gaussian sources To employ the nested array to the wideband case we propose effective strategies to apply nested array processing to each frequency component and combine all the spectral information of various frequencies to conduct the detection and estimation We then consider the practical scenario with distributed sources which considers the spreading phenomenon of sources Next we investigate the self calibration problem for perturbed nested arrays for which existing works require certain modeling assumptions for example an exactly known array geometry including the sensor gain and phase We propose corresponding robust algorithms to estimate both the model errors and the DOAs The partial Toeplitz structure of the covariance matrix is employed to estimate the gain errors and the sparse total least squares is used to deal with the phase error issue We further propose a new class of nested vector sensor arrays which is capable of significantly increasing the DOFs This is not a simple extension of the nested scalar sensor array Both the signal model and the signal processing strategies are developed in the multidimensional sense Based on the analytical results we consider two main applications electromagnetic EM vector sensors and acoustic vector sensors Last but not least in order to make full use of the available limited valuable data we propose a novel strategy which is inspired by the jackknifing resampling method Exploiting numerous iterations of subsets of the whole data set this strategy greatly improves the results of the existing source number detection and DOA estimation methods

Handbook on Array Processing and Sensor Networks Simon Haykin, K. J. Ray Liu, 2010-02-12 A handbook on recent advancements and the state of the art in array processing and sensor Networks Handbook on Array Processing and Sensor Networks provides readers with a collection of tutorial articles contributed by world renowned experts on recent advancements and the state of the art in array processing and sensor networks Focusing on fundamental principles as well as applications the handbook provides exhaustive coverage of wavelets spatial spectrum estimation MIMO radio propagation robustness issues in sensor array processing wireless communications and sensing in multi path environments using multi antenna transceivers implicit training and array processing for digital communications systems unitary design of radar waveform diversity sets acoustic array processing for speech enhancement acoustic beamforming for hearing aid applications undetermined blind source separation using acoustic arrays array processing in astronomy digital 3D 4D ultrasound imaging technology self localization of sensor networks multi target tracking and classification in collaborative sensor networks via sequential Monte Carlo energy efficient decentralized estimation sensor data fusion with application to multi target tracking distributed algorithms in sensor networks cooperative communications distributed source coding network coding for sensor networks information theoretic studies of wireless networks distributed adaptive learning mechanisms routing for statistical inference in sensor networks spectrum estimation in cognitive radios nonparametric techniques for pedestrian tracking in wireless local area networks signal processing and networking via the theory of global games biochemical transport modeling estimation and detection in realistic environments and security and

privacy for sensor networks Handbook on Array Processing and Sensor Networks is the first book of its kind and will appeal to researchers professors and graduate students in array processing sensor networks advanced signal processing and networking

Sensor Array Signal Processing Prabhakar S. Naidu, 2000-07-06 Sensors arrays are used in diverse applications across a broad range of disciplines Regardless of the application however the tools of sensor array signal processing remain the same Furthermore whether your interest is in acoustic seismic mechanical or electromagnetic wavefields they all have a common mathematical framework Mastering this framework and those tools lays a strong foundation for more specialized study and research Sensor Array Signal Processing helps build that foundation It unravels the underlying principles of the subject without reference to any particular application Instead the author focuses on the common threads that exist in wavefield analysis After introducing the basic equations governing different wavefields the treatment includes topics from simple beamformation spatial filtering and high resolution DOA estimation to imaging and reflector mapping It studies different types of sensor configurations but focuses on the uniform linear and circular arrays the most useful configurations for understanding array systems in practice Unique in its approach depth and quantitative focus Sensor Array Signal Processing offers the ideal starting point and an outstanding reference for those working or interested in medical imaging astronomy radar communications sonar seismology any field that studies propagating wavefields Its clear exposition numerical examples exercises and wide applicability impart a broad picture of array signal processing unmatched by any other text on the market

On Optimal Dimension Reduction for Sensor Array Signal Processing, 1991 Array Signal Processing Simon S. Haykin, James H. Justice, 1985 Sensor Array Signal Processing with Neural Networks Zhuo Fu, 1997

Sensor Array Signal Processing Second Edition - Solutions Manual Taylor & Francis Group, 2009-08-21

Wireless, Networking, Radar, Sensor Array Processing, and Nonlinear Signal Processing Vijay Madisetti, 2018-09-03 Now available in a three volume set this updated and expanded edition of the bestselling The Digital Signal Processing Handbook continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information bearing signals in digital form Encompassing essential background material technical details standards and software the second edition reflects cutting edge information on signal processing algorithms and protocols related to speech audio multimedia and video processing technology associated with standards ranging from WiMax to MP3 audio low power high performance DSPs color image processing and chips on video Drawing on the experience of leading engineers researchers and scholars the three volume set contains 29 new chapters that address multimedia and Internet technologies tomography radar systems architecture standards and future applications in speech acoustics video radar and telecommunications This volume Wireless Networking Radar Sensor Array Processing and Nonlinear Signal Processing provides complete coverage of the foundations of signal processing related to wireless radar space time coding and mobile communications together with associated applications to networking storage and

communications **Microphone Array Signal Processing** Jacob Benesty, Jingdong Chen, Yiteng Huang, 2008-03-11 In the past few years we have written and edited several books in the area of acoustic and speech signal processing. The reason behind this endeavor is that there were almost no books available in the literature when we first started while there was and still is a real need to publish manuscripts summarizing the most useful ideas, concepts, results, and state of the art algorithms in this important area of research. According to all the feedback we have received so far, we can say that we were right in doing this. Recently, several other researchers have followed us in this journey and have published interesting books with their own visions and perspectives. The idea of writing a book on Microphone Array Signal Processing comes from discussions we have had with many colleagues and friends. As a consequence of these discussions, we came up with the conclusion that again there is an urgent need for a monograph that carefully explains the theory and implementation of microphone arrays. While there are many manuscripts on antenna arrays from a narrowband perspective, narrowband signals, and narrowband processing, the literature is quite scarce when it comes to sensor arrays explained from a truly broadband perspective. Many algorithms for speech applications were simply borrowed from narrowband antenna arrays. However, a direct application of narrowband ideas to broadband speech processing may not be necessarily appropriate and can lead to many misunderstandings.

Sparse Sensing and Sparsity Sensed in Multi-sensor Array Applications Xiangrong Wang, Xianghua Wang, Weitong Zhai, Kaiquan Cai, 2024-02-26 The book focuses on sparse multi-sensor array systems and design approaches. Both principles and engineering practice have been addressed with more weight placed on algorithm development. This is achieved by providing an in-depth study on sparse sensing for several major multi-sensor array applications such as beam pattern synthesis, adaptive beamforming, target detection, arrival angle estimation, and dual-functional radar communications. Sparsity sensed in multi-sensor arrays refers to the sparse property of the spatial spectrum sensed. The exploitation of the sparsity in the sensed can significantly enhance the performance of signal processing systems. The comprehensive and systematic treatment of theory and practice in different array applications is one of the major features of the book, which is particularly suited for readers who are interested to learn practical solutions in array signal processing. The book benefits researchers, engineers, and graduate students in the fields of signal processing, electrical engineering, telecommunications, etc.

2016 IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM) IEEE Staff, 2016-07-10 The scope of the workshop includes basic theory, algorithms, and applications dealing with sensor arrays in various signal processing areas.

Sensor Array and Multichannel Signal Processing Workshop, Convex Analysis Applied to Sensor-array Signal Processing Fabienne Bernadette Therese Marchaud, 2000 **Computational Signal Processing and Sensor Array Signal Algebra** Domingo Rodríguez, 2002 **Proceedings of the 2000 IEEE Sensor Array and Multichannel Signal Processing Workshop** IEEE Signal Processing Society, 2000 This work contains the proceedings of the Sensor Array and Multichannel Workshop held in the year 2000. It should be useful to researchers, professors, practitioners, students, and

professionals

Signal Processing for Smart Sensor Arrays Michael D. Zoltowski, 1995

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