

Athanassios Manikas

DIFFERENTIAL GEOMETRY IN
ARRAY
PROCESSING

Imperial College Press

Differential Geometry In Array Processing

Gérard Favier



Differential Geometry In Array Processing:

Differential Geometry in Array Processing Athanassios Manikas, 2004 In view of the significance of the array manifold in array processing and array communications the role of differential geometry as an analytical tool cannot be overemphasized Differential geometry is mainly confined to the investigation of the geometric properties of manifolds in three dimensional Euclidean space R^3 and in real spaces of higher dimension Extending the theoretical framework to complex spaces this invaluable book presents a summary of those results of differential geometry which are of practical interest in the study of linear planar and three dimensional array geometries *Sparse Arrays for Radar, Sonar, and Communications* Moeness G. Amin, 2024-01-11 Specialized resource providing detailed coverage of recent advances in theory and applications of sparse arrays *Sparse Arrays for Radar Sonar and Communications* discusses various design approaches of sparse arrays including those seeking to increase the corresponding one dimensional and two dimensional virtual array apertures as well as others that configure the arrays based on solutions of constrained minimization problems The latter includes statistical bounds and signal to interference and noise ratio in this respect the book utilizes the recent strides made in convex optimizations and machine learning for sparse array configurability in both fixed and dynamic environments Similar ideas are presented for sparse array waveform design The book also discusses the role of sparse arrays in improving target detection and resolution in radar improving channel capacity in massive MIMO and improving underwater target localization in sonar It covers different sparse array topologies and provides various approaches that deliver the optimum and semi optimum sparse array transceivers Edited by a world leading expert in Radar and Signal Processing and contributed to by world class researchers in their respective fields *Sparse Arrays for Radar Sonar and Communications* covers topics including Utilizing sparse arrays in emerging technologies and showing their offerings in various sensing and communications applications Applying sparse arrays to different environments and obtain superior performances over conventional uniform arrays Solving the localization beamforming and direction finding problems using non uniform array structures for narrowband and wideband signals Designing sparse array structures for both stationary and moving platforms that produce physical and synthesized array apertures Using deep neural networks that learn the underlying complex nonlinear model and output the sparse array configuration using representations of the input data spatio temporal observations Solving for optimum sparse array configurations and beamforming coefficients in sensing using iterative convex optimization methods Providing complete coverage of the recent considerable progress in sparse array design and configurations *Sparse Arrays for Radar Sonar and Communications* is an essential resource on the subject for graduate students and engineers pursuing research and applications in the broad areas of active passive sensing and communications

Beamforming: Sensor Signal Processing For Defence Applications Athanassios Manikas, 2015-03-19 Beamforming Sensor Signal Processing for Defence Applications presents a range of important research contributions concerned with

sensor array signal processing and in particular with the superresolution beamformers fundamental to many civilian and defence applications Both space and space time STAP beamforming algorithms and their application to radar systems are considered with emphasis given to look down airborne radars synthetic aperture radar SAR arrayed MIMO radar and a number of common wave detection algorithms for two dimensional SAR imagery Furthermore ocean towed arrays which find applications in a variety of areas such as defence oil and gas exploration and geological and marine life studies are also considered paying particular attention to receiver positional uncertainties resulting from the array's flexible structure Array geometrical and electrical uncertainties design of auto calibration algorithms beamforming pointing error uncertainties and robustification issues are also presented This book is self contained and unified in its presentation and comprehensively covers some of the classic and fundamental models of beamforming for sensor signal processing It is suitable as an advanced textbook for graduate students and researchers in the area of signal processing as well as a reference book for engineers in the defence industry

Classical and Modern Direction-of-Arrival Estimation T. Engin Tuncer, Benjamin Friedlander, 2009-07-10 Classical and Modern Direction of Arrival Estimation contains both theory and practice of direction finding by the leading researchers in the field This unique blend of techniques used in commercial DF systems and state of the art super resolution methods is a valuable source of information for both practicing engineers and researchers Key topics covered are Classical methods of direction finding Practical DF methods used in commercial systems Calibration in antenna arrays Array mapping fast algorithms and wideband processing Spatial time frequency distributions for DOA estimation DOA estimation in threshold region Higher order statistics for DOA estimation Localization in sensor networks and direct position estimation Brings together in one book classical and modern DOA techniques showing the connections between them Contains contributions from the leading people in the field Gives a concise and easy to read introduction to the classical techniques Evaluates the strengths and weaknesses of key super resolution techniques Includes applications to sensor networks

Node Localization in Wireless Sensor Networks Xue Zhang, Cihan Tepedelenlioglu, Mahesh Banavar, Andreas Spanias, 2022-06-01 In sensor network applications measured data are often meaningful only when the location is accurately known In this booklet we study research problems associated with node localization in wireless sensor networks We describe sensor network localization problems in terms of a detection and estimation framework and we emphasize specifically a cooperative process where sensors with known locations are used to localize nodes at unknown locations In this class of problems even if the location of a node is known the wireless links and transmission modalities between two nodes may be unknown In this case sensor nodes are used to detect the location and estimate pertinent data transmission activities between nodes In addition to the broader problem of sensor localization this booklet studies also specific localization measurements such as time of arrival TOA received signal strength RSS and direction of arrival DOA The sequential localization algorithm which uses a subset of sensor nodes to estimate nearby sensor

nodes locations is discussed in detail Extensive bibliography is given for those readers who want to delve further into specific topics

Complex Valued Nonlinear Adaptive Filters Danilo P. Mandic, Vanessa Su Lee Goh, 2009-04-20 This book was written in response to the growing demand for a text that provides a unified treatment of linear and nonlinear complex valued adaptive filters and methods for the processing of general complex signals circular and noncircular It brings together adaptive filtering algorithms for feedforward transversal and feedback architectures and the recent developments in the statistics of complex variable under the powerful frameworks of CR Wirtinger calculus and augmented complex statistics This offers a number of theoretical performance gains which is illustrated on both stochastic gradient algorithms such as the augmented complex least mean square ACLMS and those based on Kalman filters This work is supported by a number of simulations using synthetic and real world data including the noncircular and intermittent radar and wind signals

Geometric Science of Information Frank Nielsen, Frédéric Barbaresco, 2023-07-31 This book constitutes the proceedings of the 6th International Conference on Geometric Science of Information GSI 2023 held in St Malo France during August 30 September 1 2023 The 125 full papers presented in this volume were carefully reviewed and selected from 161 submissions They cover all the main topics and highlights in the domain of geometric science of information including information geometry manifolds of structured data information and their advanced applications The papers are organized in the following topics geometry and machine learning divergences and computational information geometry statistics topology and shape spaces geometry and mechanics geometry learning dynamics and thermodynamics quantum information geometry geometry and biological structures geometry and applications

A Treatise on the Differential Geometry of Curves and Surfaces Luther Pfahler Eisenhart, 1909

From Algebraic Structures to Tensors Gérard Favier, 2019-12-04 Nowadays tensors play a central role for the representation mining analysis and fusion of multidimensional multimodal and heterogeneous big data in numerous fields This set on Matrices and Tensors in Signal Processing aims at giving a self contained and comprehensive presentation of various concepts and methods starting from fundamental algebraic structures to advanced tensor based applications including recently developed tensor models and efficient algorithms for dimensionality reduction and parameter estimation Although its title suggests an orientation towards signal processing the results presented in this set will also be of use to readers interested in other disciplines This first book provides an introduction to matrices and tensors of higher order based on the structures of vector space and tensor space Some standard algebraic structures are first described with a focus on the hilbertian approach for signal representation and function approximation based on Fourier series and orthogonal polynomial series Matrices and hypermatrices associated with linear bilinear and multilinear maps are more particularly studied Some basic results are presented for block matrices The notions of decomposition rank eigenvalue singular value and unfolding of a tensor are introduced by emphasizing similarities and differences between matrices and tensors of higher order

Mathematical Reviews ,2007 *MIMO Radar Signal*

Processing Jian Li, Petre Stoica, 2009 The first book to present a systematic and coherent picture of MIMO radars Due to its potential to improve target detection and discrimination capability Multiple Input and Multiple Output MIMO radar has generated significant attention and widespread interest in academia industry government labs and funding agencies This important new work fills the need for a comprehensive treatment of this emerging field Edited and authored by leading researchers in the field of MIMO radar research this book introduces recent developments in the area of MIMO radar to stimulate new concepts theories and applications of the topic and to foster further cross fertilization of ideas with MIMO communications Topical coverage includes Adaptive MIMO radar Beam pattern analysis and optimization for MIMO radar MIMO radar for target detection parameter estimation tracking association and recognition MIMO radar prototypes and measurements Space time codes for MIMO radar Statistical MIMO radar Waveform design for MIMO radar Written in an easy to follow tutorial style MIMO Radar Signal Processing serves as an excellent course book for graduate students and a valuable reference for researchers in academia and industry

Sixth International Conference on Digital Processing of Signals in Communications, 2-6 September 1991 ,1991 **IEEE International Symposium on Phased Array Systems and Technology** ,2000 *Proceedings* ,2000 New Technical Books New York Public Library,1986 **Comprehensive Dissertation Index** ,1989 *Pattern Recognition and Image Processing in Physics*, Robin Antony Vaughan,1991 The Scottish Universities Summer School in Physics has been held every year since 1960 The purpose of the school is to contribute to the dissemination of advanced knowledge and the formation of contacts among scientists from different countries The lecturers at the school are all international experts in their subject Their brief is to present an up to date survey of current research in their own field in the form of a coherent series of lectures at a level suitable for students who are normally in their second or third postgraduate year With more and more sophisticated computers and computer software proving itself invaluable with its advanced pattern recognition capabilities in such areas as defence and environmental and industrial control this edited volume discusses various systems that have emerged in recent years and their potential and actual applications Necessary computer architecture and software tools are explained Image processing and analysis are discussed paying particular attention to shape and motion analysis and image enhancement Neural networks play a vital role and are discussed in some detail Specific applications of this technology are concentrated on in the final section of this work notably earth observations and geological study Electrical & Electronics Abstracts ,1997 *The British National Bibliography* Arthur James Wells,2004 Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics ,1990

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