

High-Resolution and Robust Signal Processing



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Signal Processing and Communications Series



High Resolution And Robust Signal Processing

Jian Li, Petre Stoica



High Resolution And Robust Signal Processing:

High-Resolution and Robust Signal Processing Yingbo Hua,Alex Gershman,Qi Cheng,2017-12-19 High Resolution and Robust Signal Processing describes key methodological and theoretical advances achieved in this domain over the last twenty years placing emphasis on modern developments and recent research pursuits Applications grounded this sophisticated resource links theoretical background with high resolution methods used in wireless communications brain signal analysis and space time radar signal processing Chapter extras include theorem proofs derivations and computational shortcuts as well as open problems numerical measurement and performance examples and simulation results Sixteen illustrious field leaders invest High Resolution and Robust Signal Processing with in depth reviews of parametric high resolution estimation and detection techniques robust array processing solutions for adaptive beam forming and high resolution direction finding Parafac techniques for high resolution array processing and specific areas of application high resolution nonparametric methods and implementation tactics for spectral analysis multidimensional high resolution data models and discussion of R D unitary ESPRIT with colored noise multidimensional high resolution parameter estimation techniques applicable to channel sounding estimation procedures for high resolution space time radar signal processing using 2 D or 1 D 1 D models and models and methods for EEG MEG space time dipole source estimation and sensory array design

High-Resolution and Robust Signal Processing Yingbo Hua,Alex Gershman,Qi Cheng,2017-12-19 High Resolution and Robust Signal Processing describes key methodological and theoretical advances achieved in this domain over the last twenty years placing emphasis on modern developments and recent research pursuits Applications grounded this sophisticated resource links theoretical background with high resolution methods used in wireless communications brain signal analysis and space time radar signal processing Chapter extras include theorem proofs derivations and computational shortcuts as well as open problems numerical measurement and performance examples and simulation results Sixteen illustrious field leaders invest High Resolution and Robust Signal Processing with in depth reviews of parametric high resolution estimation and detection techniques robust array processing solutions for adaptive beam forming and high resolution direction finding Parafac techniques for high resolution array processing and specific areas of application high resolution nonparametric methods and implementation tactics for spectral analysis multidimensional high resolution data models and discussion of R D unitary ESPRIT with colored noise multidimensional high resolution parameter estimation techniques applicable to channel sounding estimation procedures for high resolution space time radar signal processing using 2 D or 1 D 1 D models and models and methods for EEG MEG space time dipole source estimation and sensory array design

Robust Statistics for Signal Processing Abdelhak M. Zoubir,Visa Koivunen,Esa Ollila,Michael Muma,2018-11-08 Understand the benefits of robust statistics for signal processing with this authoritative yet accessible text The first ever book on the subject it provides a comprehensive overview of the field moving from fundamental theory through to important new results and recent advances

Topics covered include advanced robust methods for complex valued data robust covariance estimation penalized regression models dependent data robust bootstrap and tensors Robustness issues are illustrated throughout using real world examples and key algorithms are included in a MATLAB Robust Signal Processing Toolbox accompanying the book online allowing the methods discussed to be easily applied and adapted to multiple practical situations This unique resource provides a powerful tool for researchers and practitioners working in the field of signal processing

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

Robust Adaptive Beamforming Jian Li, Petre Stoica, 2005-10-10 The latest research and developments in robust adaptive beamforming Recent work has made great strides toward devising robust adaptive beamformers that vastly improve signal strength against background noise and directional interference This dynamic technology has diverse applications including radar sonar acoustics astronomy seismology communications and medical imaging There are also exciting emerging applications such as smart antennas for wireless communications handheld ultrasound imaging systems and directional hearing aids Robust Adaptive Beamforming compiles the theories and work of leading researchers investigating various approaches in one comprehensive volume Unlike previous efforts these pioneering studies are based on theories that use an uncertainty set of the array steering vector The researchers define their theories explain their methodologies and present their conclusions Methods presented include Coupling the standard Capon beamformers with a spherical or ellipsoidal uncertainty set of the array steering vector Diagonal loading for finite sample size beamforming Mean squared error beamforming for signal estimation Constant modulus beamforming Robust wideband beamforming using a steered adaptive beamformer to adapt the weight vector within a generalized sidelobe canceller formulation Robust Adaptive Beamforming provides a truly up to date resource and reference for engineers researchers and graduate students in this promising rapidly expanding field

Academic Press Library in Signal Processing Mats Viberg, Abdelhak Zoubir, 2013-08-31 This third 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 array and statistical signal processing 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 *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

Fundamentals of Signal Processing in Generalized Metric Spaces Andrey Popoff,2022-04-19 Exploring the interrelations between generalized metric spaces lattice ordered groups and order statistics the book contains a new algebraic approach to Signal Processing Theory It describes mathematical concepts and results important in the development analysis and optimization of signal processing algorithms intended for various applications The book offers a solution of large scale Signal Processing Theory problems of increasing both signal processing efficiency under prior uncertainty conditions

and signal processing rate that is provided by multiplication free signal processing algorithms based on lattice ordered group operations From simple basic relationships to computer simulation the text covers a wide range of new mathematical techniques essential for understanding the proposed signal processing algorithms developed for solving the following problems signal parameter and spectral estimation signal filtering detection classification and resolution array signal processing demultiplexing and demodulation in multi channel communication systems and multi station networks wavelet analysis of 1D 2D signals Along with discussing mathematical aspects each chapter presents examples illustrating operation of signal processing algorithms developed for various applications The book helps readers understand relations between known classic and obtained results as well as recent research trends in Signal Processing Theory and its applications providing all necessary mathematical background concerning lattice ordered groups to prepare readers for independent work in the marked directions including more advanced research and development

High-Resolution Microwave Imaging Ruliang Yang,Haiying Li,Shiqiang Li,Ping Zhang,Lulu Tan,Xiangwu Gao,Xueyan Kang,2017-12-13 This book comprehensively describes high resolution microwave imaging and super resolution information processing technologies and discusses new theories methods and achievements in the high resolution microwave imaging fields Its chapters which include abundant research results and examples systematically summarize the authors main research findings in recent years The book is intended for researchers engineers and postgraduates in the fields of electronics systems signal information processing and data analysis microwave remote sensing and microwave imaging radar as well as space technology especially in the microwave remote sensing and airborne or space borne microwave imaging radar fields

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

Digital Spectral Analysis Francis Castanié,2013-02-04 Digital Spectral Analysis provides a single source that offers complete coverage of the spectral analysis domain This self contained

work includes details on advanced topics that are usually presented in scattered sources throughout the literature. The theoretical principles necessary for the understanding of spectral analysis are discussed in the first four chapters: fundamentals, digital signal processing, estimation in spectral analysis, and time series models. An entire chapter is devoted to the non-parametric methods most widely used in industry. High resolution methods are detailed in a further four chapters: spectral analysis by stationary time series modeling, minimum variance and subspace based estimators. Finally, advanced concepts are the core of the last four chapters: spectral analysis of non-stationary random signals, space-time adaptive processing, irregularly sampled data processing, particle filtering, and tracking of varying sinusoids. Suitable for students, engineers working in industry, and academics at any level, this book provides a rare complete overview of the spectral analysis domain.

MIMO Radar Signal Processing Jian Li, Petre Stoica, 2008-10-10. 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.

Space-Time Processing for MIMO Communications Alex Gershman, Nikos Sidiropoulos, 2005-08-05. Driven by the desire to boost the quality of service of wireless systems closer to that afforded by wireline systems, space-time processing for multiple input multiple output (MIMO) wireless communications research has drawn remarkable interest in recent years. Exciting theoretical advances have been complemented by rapid transition of research results to industry products and services, thus creating a vibrant new area. Space-time processing is a broad area owing in part to the underlying convergence of information theory, communications, and signal processing research that brought it to fruition. This book presents a balanced and timely introduction to space-time processing for MIMO communications, including highlights of emerging trends such as spatial multiplexing and joint transceiver optimization. Includes detailed coverage of wireless channel sounding, modelling, characterization, and model validation. Provides state-of-the-art research results on space-time coding, including comprehensive tutorial coverage of orthogonal space-time block codes. Discusses important recent developments in spatial multiplexing, transmit beamforming, pre-coding, and joint transceiver design for the multi-user MIMO downlink using full or

partial CSI Illustrates all theory with numerous examples gleaned from cutting edge research from around the globe This valuable resource will appeal to engineers developers and consultants involved in the design and implementation of space time processing for MIMO communications Its accessible format amply illustrated with real world case studies contains relevant detailed advice for postgraduate students and researchers specializing in this field **IoT and Spacecraft Informatics**

K.L. Yung, Andrew W. H. IP, Fatos Xhafa, K.K. Tseng, 2022-03-29 IoT and Spacecraft Informatics provides the theory and applications of IoT systems in the design development and operation of spacecraft Sections present a high level overview of IoT and introduce key concepts needed to successfully design IoT solutions key technologies protocols and technical building blocks that combine into complete IoT solutions The book features the latest advances findings and state of the art in research case studies development and implementation of IoT technologies for spacecraft and space systems In addition it concentrates on different aspects and techniques to achieve automatic control of spacecraft This book is for researchers PhD students engineers and specialists in aerospace engineering as well as those in computer science computer engineering or mechatronics Presents state of the art research on IoT and spacecraft technology Provides artificial intelligence based solutions and robotics for space exploration applications Introduces new applications and case studies of IoT and spacecraft informatics **Perceptual Digital Imaging**

Rastislav Lukac, 2017-12-19 Visual perception is a complex process requiring interaction between the receptors in the eye that sense the stimulus and the neural system and the brain that are responsible for communicating and interpreting the sensed visual information This process involves several physical neural and cognitive phenomena whose understanding is essential to design effective and computationally efficient imaging solutions Building on advances in computer vision image and video processing neuroscience and information engineering perceptual digital imaging greatly enhances the capabilities of traditional imaging methods Filling a gap in the literature Perceptual Digital Imaging Methods and Applications comprehensively covers the system design implementation and application aspects of this emerging specialized area It gives readers a strong fundamental understanding of theory and methods providing a foundation on which solutions for many of the most interesting and challenging imaging problems can be built The book features contributions by renowned experts who present the state of the art and recent trends in image acquisition processing storage display and visual quality evaluation They detail advances in the field and explore human visual system driven approaches across a broad spectrum of applications including Image quality and aesthetics assessment Digital camera imaging White balancing and color enhancement Thumbnail generation Image restoration Super resolution imaging Digital halftoning and dithering Color feature extraction Semantic multimedia analysis and processing Video shot characterization Image and video encryption Display quality enhancement This is a valuable resource for readers who want to design and implement more effective solutions for cutting edge digital imaging computer vision and multimedia applications Suitable as a graduate level textbook or stand alone reference for researchers and practitioners it provides a

unique overview of an important and rapidly developing research field **Optimum Array Processing** Harry L. Van Trees, 2004-04-07 Well known authority Dr Van Trees updates array signal processing for today's technology This is the most up to date and thorough treatment of the subject available Written in the same accessible style as Van Tree's earlier classics this completely new work covers all modern applications of array signal processing from biomedicine to wireless communications Optimised Radar Processors Alfonso Farina, 1987 Annotation The first volume in a new series Contributed papers give a theory of radar signal processing at a level accessible and useful to practicing radar engineers concerned with design and analysis No index Annotation c 2003 Book News Inc Portland OR booknews com **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 **Time Series with Mixed Spectra** Ta-Hsin Li, 2016-04-19 Time series with mixed spectra are characterized by hidden periodic components buried in random noise Despite strong interest in the statistical and signal processing communities no book offers a comprehensive and up to date treatment of the subject Filling this void Time Series with Mixed Spectra focuses on the methods and theory for the stati **Adaptation in Wireless Communications - 2 Volume Set** Mohamed Ibnkahla, 2018-10-08 The widespread use of adaptation techniques has helped to meet the increased demand for new applications From adaptive signal processing to cross layer design Adaptation in Wireless Communications covers all aspects of adaptation in wireless communications in a two volume set Each volume provides a unified framework for understanding adaptation and relates various specializations through common terminologies In addition to simplified state of the art cross layer design approaches they also describe advanced techniques such as adaptive resource management 4G communications and energy and mobility aware MAC protocols

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High Resolution And Robust Signal Processing Introduction

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