Radar signal processing techniques for distance and velocity measurement.

Adaptive Signal Processing For Radar

M Mosston

Adaptive Signal Processing For Radar:

Adaptive Signal Processing for Radar Ramon Nitzberg,1992 Walks the reader through adaptive approaches to radar signal processing by detailing the basic concepts of various techniques and then developing equations to analyze their performance Finally it presents curves that illustrate the attained performance   Adaptive Signal Processing for Radar Ramon Nitzberg,1992   **Space-time Adaptive Processing for Radar** J. R. Guerci,2003 This authoritative leading edge resource gives you a comprehensive overview of sample rate conversion SRC and its applications in software configurable radios The book helps you understand the limits of feasible systems for sample rate conversion as well as the limits of interpolation You get sound advice on selecting the appropriate types of SRC for specific applications and assistance in handling the trade off between hardware complexity and the clock rate of a system From an introduction to software radio and a refresher on the fundamentals of sampling and sample rate conversion to discussions on block signal processing and well known and novel structures for sample rate conversion the book offers you practical guidance that enables you to quickly find solutions for your challenging projects in the field This first of its kind reference concludes with a list of questions that when answered helps to design a system for sample rate conversion Over 890 equations and 90 illustrations support key topics throughout the book   *Multidisciplinary Research on Advanced, High-Speed, Adaptive Signal Processing for Radar Sensors* Irving S. Reed,1997 This report addresses two major components of research for high speed spacetime adaptive processing STAP for radar sensors namely 1 the development of advanced algorithms for detection and parameter estimation of weak targets in the presence of jamming and clutter and 2 the mapping of the algorithms onto massively parallel computing architectures for high speed implementation First advances in detection and estimation for STAP applications are achieved using joint Gaussian statistics A cross spectral method an optimal technique for reduced rank STAP and a simultaneous CFAR detection and maximum likelihood estimation STAP algorithm for airborne radar is introduced Secondly this report discusses new methods for parameter estimation with symmetric alpha stable distributions and fractional lower order moments A Cauchy beamformer is proposed along with a new joint spatial and Doppler frequency high resolution estimation technique based on eigen decomposition of the convariance matrix Finally this report investigates the issue of mapping the above signal processing algorithms to scaleable portable parallel implementations   **Adaptive Signal Processing** Tülay Adali,Simon Haykin,2010-03-15 Leading experts present the latest research results in adaptive signal processing Recent developments in signal processing have made it clear that significant performance gains can be achieved beyond those achievable using standard adaptive filtering approaches Adaptive Signal Processing presents the next generation of algorithms that will produce these desired results with an emphasis on important applications and theoretical advancements This highly unique resource brings together leading authorities in the field writing on the key topics of significance each at the cutting edge of its own area of specialty It begins by addressing the problem of optimization in the

complex domain fully developing a framework that enables taking full advantage of the power of complex valued processing Then the challenges of multichannel processing of complex valued signals are explored This comprehensive volume goes on to cover Turbo processing tracking in the subspace domain nonlinear sequential state estimation and speech bandwidth extension Examines the seven most important topics in adaptive filtering that will define the next generation adaptive filtering solutions Introduces the powerful adaptive signal processing methods developed within the last ten years to account for the characteristics of real life data non Gaussianity non circularity non stationarity and non linearity Features self contained chapters numerous examples to clarify concepts and end of chapter problems to reinforce understanding of the material Contains contributions from acknowledged leaders in the field Adaptive Signal Processing is an invaluable tool for graduate students researchers and practitioners working in the areas of signal processing communications controls radar sonar and biomedical engineering **Radar Signal Processing and Adaptive Systems** Ramon Nitzberg,1999 A valuable resource for radar engineers and managers of all levels this revised edition provides an introduction to the capabilities and limitations of radar as well as a detailed advanced study of key radar signal processing topics The book explains the concepts and theory of radar signal processing such as resolution ambiguities antennas waveforms the theory of detecting targets in noise and or clutter and tracking using data processing It also presents equations for the determination of maximum radar range in free space and as affected by multipath and the horizon Multidisciplinary Research on Advanced, High-speed, Adaptive Signal Processing for Radar Sensors Irving S. Reed,Chrysostomos L. Nikias,V. K. Prasanna Kumar,University of Southern California,United States. Advanced Research Projects Agency,Rome Laboratory (Griffiss Air Force Base, N.Y.),1997

High-level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter Mohamed Adel Slamani,Muralidhar Rangaswamy,Prakash R. Chakravarthi,Rajiv R. Shah,Victor R. Lesser,Syed Hamid Nawab,University of Massachusetts at Amherst. Department of Computer Science,Donald Weiner,Rome Laboratory (Griffiss Air Force Base, N.Y.),1995 **High-level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter** ,1995 **Adaptive Radar Signal Processing** Simon Haykin,2007 This collaborative work presents the results of over twenty years of pioneering research by Professor Simon Haykin and his colleagues dealing with the use of adaptive radar signal processing to account for the nonstationary nature of the environment These results have profound implications for defense related signal processing and remote sensing References are provided in each chapter guiding the reader to the original research on which this book is based **Space-time Adaptive Signal Processing for Sea Surveillance On-shore Stationary Radars** Tomasz Górski,2008 Il existe plusieurs limitations dans les syst mes radar de surveillance maritime En particulier un probl me important est le fort retour lectromagn tique de la surface de mer notamment pour les mers form es La d finition de nouvelles techniques de traitement de ces donn es radar est un domaine en pleine expansion Dans cette th se nous proposons l utilisation de traitement adaptatif dans les domaines temps fr quence STAP en anglais pour

la d tection d objets sur la surface de mer Cependant cette m thodologie est confront e plusieurs difficult s Non stationnarit dans le temps et l espace du fouillis de mer Non gaussianit de ce fouillis fouillis avec un spectre Doppler tendu Le propos de ce travail a t d tudier des solutions ces divers probl mes En particulier une modification des techniques de STAP traitement et d cision pour la prise en compte des probl mes mentionn s ci dessus est d taill e dans cette th se Ces modifications ont t test es sur des donn es simul es mais aussi sur des donn es r elles obtenues gr ce au radar onde de surface WERA

High-Level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter. Volume 5. A New Approach to Radar Detection Based on the Partitioning and Statistical Characterization of the Surveillance Volume ,1995 In signal processing applications it is common to assume Gaussian statistics in the design of optimal signal processors However non Gaussian processes do arise in many situations For example measurements reveal that radar clutter may be approximated by either Weibull K distributed Lognormal or Gaussian distributions depending upon the scenario When the possibility of a non Gaussian problem is encountered the question as to which probability distributions should be utilized in a specific situation for modeling the data needs to be answered In practice the underlying probability distributions are not known a priori Consequently an assessment must be made by monitoring the environment Another consideration is that radar detection problems can usually be divided into strong intermediate and weak signal cases Hence the system that monitors a radar environment must be able to subdivide the surveillance volume into weak background noise and clutter patches in addition to approximating the underlying probability distributions for each patch This is in contrast to current practice where a single robust detector usually based on the Gaussian assumption is employed The objective of this work is to develop techniques that monitor the environment and select the appropriate detector for processing the data The main contributions are 1 an image processing technique is devised which enables partitioning of the surveillance volume into background noise and clutter patches 2 the Ozturk algorithm is used to identify suitable approximations to the probability density function for each clutter patch and 3 rules to be used with an expert system shell under development at the University of Massachusetts and Boston University **High-Level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter. Volume 4. The Problem of Weak Signal Detection** ,1995 This investigation is motivated by the problem of weak signal detection in a strong clutter background The concept of the Locally optimum Detector has been used to address this problem The problem of weak signal detection has been extensively addressed in the literature when the received radar samples can be modeled as independent and identically distributed However this issue has not received much attention when the received radar samples are correlated and have a non Gaussian probability density function Also performance analysis is not generally carried out for finite sample sizes This thesis addresses the performance of Locally Optimum Detectors in radar weak signal detection for finite sample sizes where the radar disturbance is modeled as a correlated non Gaussian random process The theory of Spherically Invariant Random

Process is used for statistical characterization of non Gaussian radar clutter In particular the K distribution and the Student T distributions have been considered as models for radar clutter A canonical form is established for the Locally Optimum Detector that is a product of the Gaussian linear receiver and a zero memory nonlinearity The functional form of the zero memory nonlinearity depends on the approximation used for the underlying radar clutter probability density function Since the weak signal detector is nonlinear thresholds for specified false alarm probability cannot be established in closed form Given a specified false alarm probability a new method for threshold estimation based on extreme value theory is derived that reduces by orders of magnitude the computation and sample size required to set the threshold **High-level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter** ,1995 Signal Processing for Multistatic Radar Systems Ngoc Hung Nguyen,Kutluyil Doğançay,2019-10-25 Signal Processing for Multistatic Radar Systems Adaptive Waveform Selection Optimal Geometries and Pseudolinear Tracking Algorithms addresses three important aspects of signal processing for multistatic radar systems including adaptive waveform selection optimal geometries and pseudolinear tracking algorithms A key theme of the book is performance optimization for multistatic target tracking and localization via waveform adaptation geometry optimization and tracking algorithm design Chapters contain detailed mathematical derivations and algorithmic development that are accompanied by simulation examples and associated MATLAB codes This book is an ideal resource for university researchers and industry engineers in radar radar signal processing and communications engineering Develops waveform selection algorithms in a multistatic radar setting to optimize target tracking performance Assesses the optimality of a given target sensor geometry and designs optimal geometries for target localization using mobile sensors Gives an understanding of low complexity and high performance pseudolinear estimation algorithms for target localization and tracking in multistatic radar systems Contains the MATLAB codes for the examples used in the book **High-level Adaptive Signal Processing Architecture with Applications to Radar Non-Gaussian Clutter** Mohamed Adel Slamani,1995 Principles of Radar and Sonar Signal Processing Chevalier François Le,2002 **Space-time Adaptive Processing** Richard Klemm,1998 This is a systematic introduction to airborne MTI radar design in use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns It explores signal processing techniques jamming and system applications including sonar

Robust Adaptive Signal Processing Methods for Heterogeneous Radar Clutter Scenarios ,2004 This paper addresses the problem of radar target detection in severely heterogeneous clutter environments Specifically we present the performance of the normalized matched filter test in a background of disturbance consisting of clutter having a covariance matrix with known structure and unknown scaling plus background white Gaussian noise It is shown that when the clutter covariance matrix is low rank the LRNMF test retains invariance with respect to the unknown scaling as well as the background noise level and has an approximately constant false alarm rate CFAR Performance of the test depends only upon

the number of elements the number of pulses processed in a coherent processing interval and the rank of the clutter covariance matrix Analytical expressions for calculating the false alarm and detection probabilities are presented Performance of the method is shown to degrade with increasing clutter rank especially for low false alarm rates An adaptive version of the test LRNAMF is developed and its performance is studied with simulated data from the KASSPER program Results pertaining to sample support for subspace estimation CFAR and detection performance are presented Target contamination of training data has a deleterious impact on the performance of the test Therefore a technique known as self censoring reiterative fast maximum likelihood adaptive power residue SCRFML APR is developed to treat this problem and its performance is discussed The SCRFML APR method is used to estimate the unknown covariance matrix in the presence of outliers This covariance matrix estimate can then be used in the LRNAMF or any other eigen based adaptive processing technique   **Adaptive Radar** Frederick W. Lee,1990

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Table of Contents Adaptive Signal Processing For Radar

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