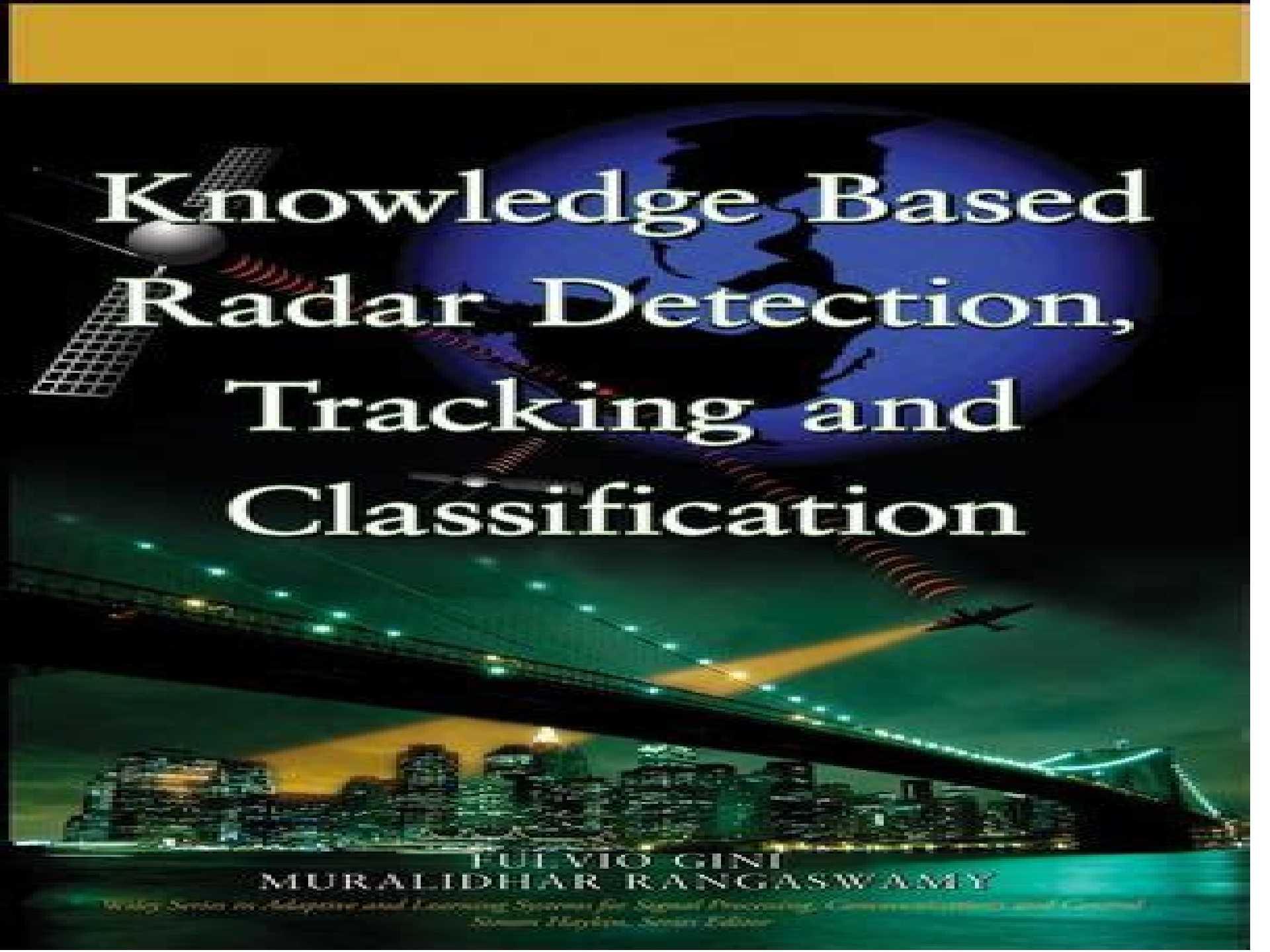




Knowledge Based Radar Detection, Tracking and Classification

FULVIO GINI
MURALIDHAR RANGASWAMY

*Walleye Senior for Adaptive and Learning Systems for Signal Processing, Communications and Control
Systems, Florida, Senior Editor*

Knowledge Based Radar Detection Tracking And Classification

**Pietro Finocchio,Ramjee
Prasad,Marina Ruggieri**



Knowledge Based Radar Detection Tracking And Classification:

Knowledge Based Radar Detection, Tracking and Classification Fulvio Gini, Muralidhar Rangaswamy, 2008-07-31 Discover the technology for the next generation of radar systems Here is the first book that brings together the key concepts essential for the application of Knowledge Based Systems KBS to radar detection tracking classification and scheduling The book highlights the latest advances in both KBS and radar signal and data processing presenting a range of perspectives and innovative results that have set the stage for the next generation of adaptive radar systems The book begins with a chapter introducing the concept of Knowledge Based KB radar The remaining nine chapters focus on current developments and recent applications of KB concepts to specific radar functions Among the key topics explored are Fundamentals of relevant KB techniques KB solutions as they apply to the general radar problem KBS applications for the constant false alarm rate processor KB control for space time adaptive processing KB techniques applied to existing radar systems Integrated end to end radar signals Data processing with overarching KB control All chapters are self contained enabling readers to focus on those topics of greatest interest Each one begins with introductory remarks moves on to detailed discussions and analysis and ends with a list of references Throughout the presentation the authors offer examples of how KBS works and how it can dramatically improve radar performance and capability Moreover the authors forecast the impact of KB technology on future systems including important civilian military and homeland defense applications With chapters contributed by leading international researchers and pioneers in the field this text is recommended for both students and professionals in radar and sonar detection tracking and classification and radar resource management

Adaptive Radar Detection: Model-Based, Data-Driven and Hybrid Approaches Angelo Coluccia, 2022-11-30 This book shows you how to adopt data driven techniques for the problem of radar detection both per se and in combination with model based approaches In particular the focus is on space time adaptive target detection against a background of interference consisting of clutter possible jammers and noise It is a handy concise reference for many classic model based adaptive radar detection schemes as well as the most popular machine learning techniques including deep neural networks and helps you identify suitable data driven approaches for radar detection and the main related issues You ll learn how data driven tools relate to and can be coupled or hybridized with traditional adaptive detection statistics understand fundamental concepts schemes and algorithms from statistical learning classification and neural networks domains The book also walks you through how these concepts and schemes have been adapted for the problem of radar detection in the literature and provides you with a methodological guide for the design illustrating different possible strategies You ll be equipped to develop a unified view under which you can exploit the new possibilities of the data driven approach even using simulated data This book is an excellent resource for Radar professionals and industrial researchers postgraduate students in electrical engineering and the academic community

Self-Protection Jammer Systems Ahmet Gungor Pakfiliz, 2024-10-31 Self Protection Jammer Systems is an in depth exploration of the

technical and operational principles of self protection jammer systems This comprehensive resource covers the theoretical foundations of self protection jammers including radar theory radar guidance radar jamming theory radar warning receiver systems and the theory of self protection jammer systems It translates these technical foundations into practical applications in operational settings specifically highlighting the effective deployment of self protection jammers on airborne platforms and decoys for jamming purposes This book also focuses on the future trends in both technical and operational aspects of self protection jammer systems To facilitate a deeper understanding it includes solved problems that illustrate key concepts and applications Aimed at engineers involved in developing and maintaining self protection electronic warfare systems this book provides essential theoretical and practical knowledge necessary for design implementation field support and maintenance It will also help operational personnel to understand and address technical issues and define realistic requirements The book is expected to inspire scholars in the field offering new perspectives and insights into self protection jammer systems

Smart Trends in Computing and Communications Yu-Dong Zhang,Jyotsna Kumar Mandal,Chakchai

So-In,Nileshsingh V. Thakur,2019-12-03 This book gathers high quality papers presented at the International Conference on Smart Trends for Information Technology and Computer Communications SmartCom 2019 organized by the Global Knowledge Research Foundation GR Foundation from 24 to 25 January 2019 It covers the state of the art and emerging topics pertaining to information computer communications and effective strategies for their use in engineering and managerial applications It also explores and discusses the latest technological advances in and future directions for information and knowledge computing and its applications

Cognitive Radar J. R. Guerci,2010 Chronicling the new field of cognitive radar CR this cutting edge resource provides an accessible introduction to the theory and applications of CR and presents a comprehensive overview of the latest developments in this emerging area The first book on the subject Cognitive Radar covers important breakthroughs in advanced radar systems and offers new and powerful methods for combating difficult clutter environments You find details on specific algorithmic and real time high performance embedded computing HPEC architectures This practical book is supported with numerous examples that clarify key topics and includes more than 370 equations

Space-Time Adaptive Processing for Radar, Second Edition J.R. Guerci,2014-11-01 Space time adaptive processing STAP is an exciting technology for advanced radar systems that allows for significant performance enhancements over conventional approaches Based on a time tested course taught in industry government and academia this second edition reviews basic STAP concepts and methods placing emphasis on implementation in real world systems It addresses the needs of radar engineers who are seeking to apply effective STAP techniques to their systems and serves as an excellent reference for non radar specialists with an interest in the signal processing applications of STAP Engineers find the analysis tools they need to assess the impact of STAP on a variety of important radar applications A toolkit of STAP algorithms and implementation techniques allows practitioners the flexibility of adapting the best methods to their application In addition

this second edition adds brand new coverage on STAP on Transmit and Knowledge Aided STAP KA STAP **MIMO Radar: Theory and Application** Jamie Bergin, Joseph R. Guerci, 2018-03-31 This comprehensive new resource provides in depth and timely coverage of the underpinnings and latest advances of MIMO radar This book provides a comprehensive introduction to MIMO radar and demonstrates its utility in real world applications then culminates with the latest advances in optimal and adaptive MIMO radar for enhanced detection and target ID in challenging environments Signal processing prerequisites are explained including radar signals orthogonal waveforms matched filtering multi channel beam forming and Doppler processing This book discusses MIMO radar signal model antenna properties system modeling and waveform alternatives MIMO implantation challenges are covered including computational complexity adaptive clutter mitigation calibration and equalization and hardware constraints Applications for GMTI radar OTH radar maritime radar and automotive radar are explained The book offers an introduction to optimum MIMO radar and includes details about detection clutter and target ID Insight into adaptive MIMO radar and MIMO channel estimation is presented and techniques and illustrative examples are given Readers find exclusive flight testing data from DARPA The breadth of coverage in this all inclusive resource makes it suitable for both practicing engineers and advanced researchers The book concludes with discussions on areas for future research *Academic Press Library in Signal Processing, Volume 7*, 2017-12-01 Academic Press Library in Signal Processing Volume 7 Array Radar and Communications Engineering is aimed at university researchers post graduate students and R D engineers in the industry providing a tutorial based comprehensive review of key topics and technologies of research in Array and Radar Processing Communications Engineering and Machine Learning Users will find the book to be an invaluable starting point to their research and initiatives With this reference readers will quickly grasp an unfamiliar area of research understand the underlying principles of a topic learn how a topic relates to other areas and learn of research issues yet to be resolved Presents a quick tutorial of reviews of important and emerging topics of research Explores core principles technologies algorithms and applications Edited and contributed by international leading figures in the field Includes comprehensive references to journal articles and other literature upon which to build further more detailed knowledge **Business Modeling and Software Design** Boris Shishkov, 2023-07-01 This book constitutes the refereed proceedings of the 13th International Symposium on Business Modeling and Software Design BMSD 2023 which took place in Utrecht The Netherlands July 2023 The 11 full and 18 short papers included in this book were carefully reviewed and selected from a total of 65 submissions BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design Particular areas of interest are Business Processes and Enterprise Engineering Business Models and Requirements Business Models and Services Business Models and Software Information Systems Architectures and Paradigms Data Aspects in Business Modeling and Software Development Blockchain Based Business Models and Information Systems Iot and Implications for Enterprise Information

Systems Each year a special theme is chosen for making presentations and discussions more focused The BMSD 2023 theme is Incorporating Context Awareness in the Design of Information Systems **Academic Press Library in Signal**

Processing Fulvio Gini,Nikolaos D. Sidiropoulos,2013-09-10 This second 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 communications and radar engineering 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 **Advances in Natural Computation, Fuzzy Systems and**

Knowledge Discovery Hongying Meng,Tao Lei,Maozhen Li,Kenli Li,Ning Xiong,Lipo Wang,2021-06-26 This book consists of papers on the recent progresses in the state of the art in natural computation fuzzy systems and knowledge discovery The book is useful for researchers including professors graduate students as well as R D staff in the industry with a general interest in natural computation fuzzy systems and knowledge discovery The work printed in this book was presented at the 2020 16th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2020 held in Xi an China from 19 to 21 December 2020 All papers were rigorously peer reviewed by experts in the areas **Nonlinear**

Dynamics Todd Evans,2010-01-01 This volume covers a diverse collection of topics dealing with some of the fundamental concepts and applications embodied in the study of nonlinear dynamics Each of the 15 chapters contained in this compendium generally fit into one of five topical areas physics applications nonlinear oscillators electrical and mechanical systems biological and behavioral applications or random processes The authors of these chapters have contributed a stimulating cross section of new results which provide a fertile spectrum of ideas that will inspire both seasoned researches and students *Aerospace Navigation Systems* Alexander V. Nebylov,Joseph Watson,2016-08-01 Compiled by leading

authorities *Aerospace Navigation Systems* is a compendium of chapters that present modern aircraft and spacecraft navigation methods based on up to date inertial satellite map matching and other guidance techniques Ranging from the practical to the theoretical this book covers navigational applications over a wide range of aerospace vehicles including aircraft spacecraft and drones both remotely controlled and operating as autonomous vehicles It provides a comprehensive background of fundamental theory the utilisation of newly developed techniques incorporates the most complex and advanced types of technical innovation currently available and presents a vision for future developments Satellite Navigation Systems SNS long range navigation systems short range navigation systems and navigational displays are introduced and

many other detailed topics include Radio Navigation Systems RNS Inertial Navigation Systems INS Homing Systems Map Matching and other correlated extremalsystems and both optimal and sub optimal filtering in integrated navigation systems

Video Tracking Emilio Maggio,Andrea Cavallaro,2011-07-05 Video Tracking provides a comprehensive treatment of the fundamental aspects of algorithm and application development for the task of estimating over time the position of objects of interest seen through cameras Starting from the general problem definition and a review of existing and emerging video tracking applications the book discusses popular methods such as those based on correlation and gradient descent Using practical examples the reader is introduced to the advantages and limitations of deterministic approaches and is then guided toward more advanced video tracking solutions such as those based on the Bayes recursive framework and on Random Finite Sets Key features Discusses the design choices and implementation issues required to turn the underlying mathematical models into a real world effective tracking systems Provides block diagrams and simil code implementation of the algorithms Reviews methods to evaluate the performance of video trackers this is identified as a major problem by end users The book aims to help researchers and practitioners develop techniques and solutions based on the potential of video tracking applications The design methodologies discussed throughout the book provide guidelines for developers in the industry working on vision based applications The book may also serve as a reference for engineering and computer science graduate students involved in vision robotics human computer interaction smart environments and virtual reality programmes

Aerospace Technologies and Applications for Dual Use Pietro Finocchio,Ramjee Prasad,Marina Ruggieri,2022-09-01 The events occurred in the last years have shown how the threat related to both intentional and natural disasters could bring the civil and the military worlds closer in the conceivment and deployment of countermeasures as well as in the identification of effective strategies for enhancing the Planet safety and security In this frame the concept of dual use the set of technologies and applications that can be exploited for both civil and military purposes becomes a key topic In addition the aerospace is a strategic building block in the deployment of a network centric environment that aims at the global protection of the mankind Aerospace is also a natural environment for dual use many of the related enabling technologies have been first developed for the military world and then applied to civil including commercial purposes On September 12 14 2007 an International Symposium has been held in Roma Italy joining the dual use approach with the aerospace technology the international community has been gathered around the key topic aerospace technologies and applications for dual use The event has called experts and operators from the military and civil community belonging to industry scientific and governmental institutions The common aim was an effective convergence between the available and perspected technologies for the civil and military worlds as well as the conceivment of applications that can take the maximum benefit from the dual approach optimizing the available economic resources The Symposium has included invited only contributions and an industrial panel The main results of the Symposium derived from key note speeches invited lectures panel discussions and conclusions have

created the starting material to develop this Edited Book *Neural-Based Orthogonal Data Fitting* Giansalvo Cirrincione, Maurizio Cirrincione, 2011-04-06 The presentation of a novel theory in orthogonal regression The literature about neural based algorithms is often dedicated to principal component analysis PCA and considers minor component analysis MCA a mere consequence Breaking the mold Neural Based Orthogonal Data Fitting is the first book to start with the MCA problem and arrive at important conclusions about the PCA problem The book proposes several neural networks all endowed with a complete theory that not only explains their behavior but also compares them with the existing neural and traditional algorithms EXIN neurons which are of the authors invention are introduced explained and analyzed Further it studies the algorithms as a differential geometry problem a dynamic problem a stochastic problem and a numerical problem It demonstrates the novel aspects of its main theory including its applications in computer vision and linear system identification The book shows both the derivation of the TLS EXIN from the MCA EXIN and the original derivation as well as Shows TLS problems and gives a sketch of their history and applications Presents MCA EXIN and compares it with the other existing approaches Introduces the TLS EXIN neuron and the SCG and BFGS acceleration techniques and compares them with TLS GAO Outlines the GeTLS EXIN theory for generalizing and unifying the regression problems Establishes the GeMCA theory starting with the identification of GeTLS EXIN as a generalization eigenvalue problem In dealing with mathematical and numerical aspects of EXIN neurons the book is mainly theoretical All the algorithms however have been used in analyzing real time problems and show accurate solutions Neural Based Orthogonal Data Fitting is useful for statisticians applied mathematics experts and engineers *Handbook of Dynamic Data Driven Applications Systems* Erik P. Blasch, Frederica Darema, Sai Ravela, Alex J. Aved, 2022-05-11 The Handbook of Dynamic Data Driven Applications Systems establishes an authoritative reference of DDDAS pioneered by Dr Darema and the co authors for researchers and practitioners developing DDDAS technologies Beginning with general concepts and history of the paradigm the text provides 32 chapters by leading experts in ten application areas to enable an accurate understanding analysis and control of complex systems be they natural engineered or societal The authors explain how DDDAS unifies the computational and instrumentation aspects of an application system extends the notion of Smart Computing to span from the high end to the real time data acquisition and control and manages Big Data exploitation with high dimensional model coordination The Dynamically Data Driven Applications Systems DDDAS paradigm inspired research regarding the prediction of severe storms Specifically the DDDAS concept allows atmospheric observing systems computer forecast models and cyberinfrastructure to dynamically configure themselves in optimal ways in direct response to current or anticipated weather conditions In so doing all resources are used in an optimal manner to maximize the quality and timeliness of information they provide Kelvin Droegemeier Regents Professor of Meteorology at the University of Oklahoma former Director of the White House Office of Science and Technology Policy We may well be entering the golden age of data science as society in general has come to

appreciate the possibilities for organizational strategies that harness massive streams of data The challenges and opportunities are even greater when the data or the underlying system are dynamic and DDDAS is the time tested paradigm for realizing this potential Sangtae Kim Distinguished Professor of Mechanical Engineering and Distinguished Professor of Chemical Engineering at Purdue University **Principles of Space-Time Adaptive Processing** Richard Klemm, 2006-11-28 This book presents a systematic introduction to airborne MTI moving target indication system design for use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns New developments in the field and special aspects of airborne MTI radar are also covered **Adaptive Signal Processing** Tulay Adali, Simon Haykin, 2010-06-25 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 *Fundamentals of Cognitive Radio* Peyman Setoodeh, Simon Haykin, 2017-07-31 A comprehensive treatment of cognitive radio networks and the specialized techniques used to improve wireless communications The human brain as exemplified by cognitive radar cognitive radio and cognitive computing inspires the field of Cognitive Dynamic Systems In particular cognitive radio is growing at an exponential rate Fundamentals of Cognitive Radio details different aspects of the human brain and provides examples of how it can be mimicked by cognitive dynamic systems The text offers a communication theoretic background including information on resource allocation in wireless networks and the concept of robustness The authors provide a thorough mathematical background with data on game theory variational inequalities and projected dynamic systems They then delve more deeply into resource allocation in cognitive

radio networks The text investigates the dynamics of cognitive radio networks from the perspectives of information theory optimization and control theory It also provides a vision for the new world of wireless communications by integration of cellular and cognitive radio networks This groundbreaking book Shows how wireless communication systems increasingly use cognition to enhance their networks Explores how cognitive radio networks can be viewed as spectrum supply chain networks Derives analytic models for two complementary regimes for spectrum sharing open access and market driven to study both equilibrium and disequilibrium behaviors of networks Studies cognitive heterogeneous networks with emphasis on economic provisioning for resource sharing Introduces a framework that addresses the issue of spectrum sharing across licensed and unlicensed bands aimed for Pareto optimality Written for students of cognition communication engineers telecommunications professionals and others Fundamentals of Cognitive Radio offers a new generation of ideas and provides a fresh way of thinking about cognitive techniques in order to improve radio networks

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