

Bayesian Multiple Target Tracking

SECOND EDITION



Lawrence D. Stone
Roy L. Streit
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Bayesian Multiple Target Tracking Second Edition

Bayesian Multiple Target Tracking Second Edition

Yijin Wang



Bayesian Multiple Target Tracking Second Edition Bayesian Multiple Target Tracking Second Edition:

Bayesian Multiple Target Tracking, Second Edition Lawrence D. Stone, Roy L. Streit, Thomas L. Corwin, Kristine L. Bell, 2013-12-01 This second edition has undergone substantial revision from the 1999 first edition recognizing that a lot has changed in the multiple target tracking field One of the most dramatic changes is in the widespread use of particle filters to implement nonlinear non Gaussian Bayesian trackers This book views multiple target tracking as a Bayesian inference problem Within this framework it develops the theory of single target tracking multiple target tracking and likelihood ratio detection and tracking In addition to providing a detailed description of a basic particle filter that implements the Bayesian single target recursion this resource provides numerous examples that involve the use of particle filters With these examples illustrating the developed concepts algorithms and approaches the book helps radar engineers develop tracking solutions when observations are non linear functions of target state when the target state distributions or measurement error distributions are not Gaussian in low data rate and low signal to noise ratio situations and when notions of contact and association are merged or unresolved among more than one target *Monopulse Radar Theory and Practice, Second Edition* Samuel M. Sherman, David Knox Barton, 2011 Monopulse is a type of radar that sends additional information in the signal in order to avoid problems caused by rapid changes in signal strength Monopulse is resistant to jamming which is one of the main reasons it is used in most radar systems today This updated and expanded edition of an Artech House classic offers you a current and comprehensive treatment of monopulse radar principles techniques and applications The Second Edition features two brand new chapters covering monopulse countermeasures and counter countermeasures and monopulse for airborne radar and homing seekers This essential volume categorizes and describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also devotes considerable space to monopulse circuits and hardware components explaining their functions and performance This practical resource features numerous photographs and illustrations drawn from actual radar systems and components This book serves as a valuable reference for both experienced radar engineers and those new to the field Radio Wave Propagation Fundamentals, Second Edition Artem Saakian, 2020-12-31 This completely updated second edition of an Artech House classic provides a thorough introduction to the basic principles of electromagnetic wave propagation of radio frequencies in real world conditions fully updated by including new achievements in theory and technology It serves as an invaluable daily reference for practitioners in the field and as a complete organized text on the subject This comprehensive resource covers a wide range of essential topics from the classification of radio waves electromagnetic wave theory and antennas for RF radio links to the impact of the earth surface on the propagation of ground waves atmospheric effects in radio wave propagation and radio wave reception The book explores the propagation of the ground radio waves namely the waves that propagate in vicinity of the earth's surface e g guided by that interface without involvement of any atmospheric effects Specifics of the high frequency HF radio

propagation due to reflections from ionospheric layers is studied based on commonly used models of the ionospheric vertical profiles Scattering of the radio waves of UHF and higher frequency bands from the random variations of the tropospheric refraction index from tiny air turbulences are also considered by using the principles of statistical radio physics Analysis of propagation conditions on real propagation paths including analysis of the power budget of the VHF UHF link to assure its stability percentage of availability within observation time frame terrestrial broadcast mobile and satellite RF links are presented The engineering design of the cellular networks including LTE 4G 5G and upcoming higher generations is explored HF propagation predictions for extremely long range links design for commercial and military applications are explained Packed with examples and problems this book provides a theoretical background for astrophysical aeronomy and geophysical instrumentation design

Handbook of Multisensor Data Fusion Martin Liggins II, David Hall, James Llinas, 2017-01-06 In the years since the bestselling first edition fusion research and applications have adapted to service oriented architectures and pushed the boundaries of situational modeling in human behavior expanding into fields such as chemical and biological sensing crisis management and intelligent buildings Handbook of Multisensor Data Fusion Theory and Practice Second Edition represents the most current concepts and theory as information fusion expands into the realm of network centric architectures It reflects new developments in distributed and detection fusion situation and impact awareness in complex applications and human cognitive concepts With contributions from the world's leading fusion experts this second edition expands to 31 chapters covering the fundamental theory and cutting edge developments that are driving this field New to the Second Edition Applications in electromagnetic systems and chemical and biological sensors Army command and combat identification techniques Techniques for automated reasoning Advances in Kalman filtering Fusion in a network centric environment Service oriented architecture concepts Intelligent agents for improved decision making Commercial off the shelf COTS software tools From basic information to state of the art theories this second edition continues to be a unique comprehensive and up to date resource for data fusion systems designers

Distributed Sensor Networks S. Sitharama Iyengar, Richard R. Brooks, 2016-04-19 The best selling Distributed Sensor Networks became the definitive guide to understanding this far reaching technology Preserving the excellence and accessibility of its predecessor Distributed Sensor Networks Second Edition once again provides all the fundamentals and applications in one complete self contained source Ideal as a tutorial for

Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration

gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

Target Tracking with Random Finite Sets Weihua Wu,Hemin Sun,Mao Zheng,Weiping Huang,2023-08-02 This book focuses on target tracking and information fusion with random finite sets Both principles and implementations have been addressed with more weight placed on engineering implementations This is achieved by providing in depth study on a number of major topics such as the probability hypothesis density PHD cardinalized PHD multi Bernoulli MB labeled MB LMB d generalized LMB d GLMB marginalized d GLMB together with their Gaussian mixture and sequential Monte Carlo implementations Five extended applications are covered which are maneuvering target tracking target tracking for Doppler radars track before detect for dim targets target tracking with non standard measurements and target tracking with multiple distributed sensors The comprehensive and systematic summarization in target tracking with RFSs is one of the major features of the book which is particularly suited for readers who are interested to learn solutions in target tracking with RFSs The book benefits researchers engineers and graduate students in the fields of random finite sets target tracking sensor fusion data fusion information fusion etc

The Micro-Doppler Effect in Radar, Second Edition Victor C. Chen,2019-02-28 Written by a prominent expert in the field this updated and expanded second edition of an Artech House classic includes the most recent breakthroughs in vital sign and gender recognition via micro radar as well as covering basic principles of Doppler effect and micro Doppler effect and describing basic applications of micro Doppler signatures in radar The book presents detailed procedures about how to generate and analyze micro Doppler signatures from radar signals Readers will learn how to model and animate an object such as human spinning top rotating rotor blades with movement simulation of radar returns from the object and generating micro Doppler signature The book includes coverage of the Google project Soli which demonstrated the use of radar micro Doppler effect to sense and recognize micro motions of human hand gesture for controlling devices It also discusses noncontact detection of human vital sign micro motions of breathing and heart beating using radar another important application of radar micro Doppler sensors Detailed MATLAB source codes for simulation of radar backscattering from targets with various motions are provided along with source codes for generating micro Doppler signatures and analyzing characteristics of targets

Group-target Tracking Wen-dong Geng,Yuan-qin Wang,Zheng-hong Dong,2016-10-01 This book describes grouping detection and initiation group initiation algorithm based on geometry center data association and track continuity as well as separate detection and situation cognition for group target It specifies the tracking of the target in different quantities and densities At the same time it integrates cognition into the application Group target Tracking is

designed as a book for advanced level students and researchers in the area of radar systems information fusion of multi sensors and electronic countermeasures It is also a valuable reference resource for professionals working in this field **An Introduction to Passive Radar, Second Edition** Hugh D. Griffiths, Christopher J. Baker, 2022-04-30 This bestselling book now in its second edition introduces the basic principles of passive radar technology and provides a comprehensive overview of the recent developments and advances in this field It shows you how passive radar works how it differs from the active type and helps you understand the benefits and drawbacks of this novel technology The book gives you the knowledge you need to get a full understanding of this fascinating technology All chapters have been fully revised and updated and are written in a clear and accessible style New chapters have been added to cover advances in the technology that have already been built and demonstrated including systems on moving platforms aircraft and UAVs as well as advances in types of transmission notably single frequency broadcast transmissions and 5G and in processing techniques This book remains an important resource for engineers working in academic industry or government research laboratories academics teaching graduate level students and those working in the specification and procurement of radar systems who need to understand the performance and limitations of the technology *Radar RF Circuit Design, Second Edition* Nickolas Kingsley, Joseph R. Guerri, 2022-02-28 This new edition of a previous bestseller gives you practical techniques for optimizing RF and microwave circuits for applications in radar systems design with an emphasis on current and emerging technologies Completely updated with new material the book shows you how to design RF components for radar systems and how to choose appropriate materials and packaging methods It takes you through classic techniques to the state of the art and finally to emerging technologies You will learn How to design high frequency circuits for use in radar applications How to integrate components while avoiding higher level assembly issues and troubleshooting problems on the measurement bench How to properly simulate build assemble and test high frequency circuits How to debug issues with hardware on the bench How to connect microwave theory to practical circuit design Theory and practical information are provided while addressing topics ranging from heat removal to digital circuit integration The book serves as a teaching aid for classic techniques that are still relevant today It also demonstrates how these techniques are serving as the foundation for technologies to come You will be equipped to consider future needs and emerging enabling technologies and confidently think and design outside the box to ensure future needs are met The book also shows you how to incorporate modern design techniques often overlooked or underused and will help you to better understand the capabilities and limitations of today s technology and the emerging technologies that are on the horizon to mitigate those limitations This is a must have resource for system level radar designers who want to up their game in RF microwave component design It is also a great tool for RF microwave engineers tasked or interested in designing components for radar systems Students and new designers of radar components will also benefit and be well prepared to start designing immediately **Multiple Heterogeneous Unmanned Aerial Vehicles** Aníbal Ollero, Iván

Maza,2007-10-25 Aerial robots can be considered as an evolution of the Unmanned Aerial Vehicles UAVs This book provides a quite complete overview of issues related to aerial robotics addressing problems ranging from flight control to terrain perception and mission planning and execution The major challenges and potentials of heterogeneous UAVs are comprehensively explored It builds on the results of the European project COMETS and highlights a number of key research topics in the area of UAV development including communication perception teleoperation and decision making The monograph emphasizes the current state of technology the existing problems and potentialities of systems consisting of multiple UAVs which are heterogeneous in view of the different characteristics of the aerial vehicles the different on board payloads and the different on board information processing capabilities The book also examines potential applications of UAVs and details a relevant application case forest fire detection and monitoring

Data Association for Multi-Object Visual Tracking Margrit Betke,Zheng Wu,2022-05-31 In the human quest for scientific knowledge empirical evidence is collected by visual perception Tracking with computer vision takes on the important role to reveal complex patterns of motion that exist in the world we live in Multi object tracking algorithms provide new information on how groups and individual group members move through three dimensional space They enable us to study in depth the relationships between individuals in moving groups These may be interactions of pedestrians on a crowded sidewalk living cells under a microscope or bats emerging in large numbers from a cave Being able to track pedestrians is important for urban planning analysis of cell interactions supports research on biomaterial design and the study of bat and bird flight can guide the engineering of aircraft We were inspired by this multitude of applications to consider the crucial component needed to advance a single object tracking system to a multi object tracking system data association Data association in the most general sense is the process of matching information about newly observed objects with information that was previously observed about them This information may be about their identities positions or trajectories Algorithms for data association search for matches that optimize certain match criteria and are subject to physical conditions They can therefore be formulated as solving a constrained optimization problem the problem of optimizing an objective function of some variables in the presence of constraints on these variables As such data association methods have a strong mathematical grounding and are valuable general tools for computer vision researchers This book serves as a tutorial on data association methods intended for both students and experts in computer vision We describe the basic research problems review the current state of the art and present some recently developed approaches The book covers multi object tracking in two and three dimensions We consider two imaging scenarios involving either single cameras or multiple cameras with overlapping fields of view and requiring across time and across view data association methods In addition to methods that match new measurements to already established tracks we describe methods that match trajectory segments also called tracklets The book presents a principled application of data association to solve two interesting tasks first analyzing the movements of groups of free flying animals

and second reconstructing the movements of groups of pedestrians We conclude by discussing exciting directions for future research

Beyond the Kalman Filter: Particle Filters for Tracking Applications Branko Ristic ,Sanjeev Arulampalam,Neil Gordon,2003-12-01 For most tracking applications the Kalman filter is reliable and efficient but it is limited to a relatively restricted class of linear Gaussian problems To solve problems beyond this restricted class particle filters are proving to be dependable methods for stochastic dynamic estimation Packed with 867 equations this cutting edge book introduces the latest advances in particle filter theory discusses their relevance to defense surveillance systems and examines defense related applications of particle filters to nonlinear and non Gaussian problems With this hands on guide you can develop more accurate and reliable nonlinear filter designs and more precisely predict the performance of these designs You can also apply particle filters to tracking a ballistic object detection and tracking of stealthy targets tracking through the blind Doppler zone bi static radar tracking passive ranging bearings only tracking of maneuvering targets range only tracking terrain aided tracking of ground vehicles and group and extended object tracking

Cognitive Radar: The Knowledge-Aided Fully Adaptive Approach, Second Edition Joseph R. Guerci ,2020-06-30 This highly anticipated second edition of the bestselling Cognitive Radar The Knowledge Aided Fully Adaptive Approach the first book on the subject provides up to the minute advances in the field of cognitive radar CR Adaptive waveform methods are discussed in detail along with optimum resource allocation and radar scheduling Chronicling the 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 It 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

Signal Processing, Sensor Fusion, and Target Recognition ,1999

Women in Telecommunications Maria Sabrina Greco,Dajana Cassioli,Silvia Liberata Ullo,Margaret J. Lyons,2023-10-05 This book provides a breadth of innovative and impactful research in the field of telecommunications led by women investigators Topics covered include satellite communications cognitive radars remote sensing sensor networks quantum Internet and cyberspace These topics touch on many of the challenges facing the world today and these solutions by women researchers are valuable for their technical excellence and their non traditional perspective As an important part of the Women in Engineering and Science book series the work highlights the contribution of women leaders in telecommunications inspiring women and men girls and boys to enter and apply themselves to secure our future in

Fundamentals of Object Tracking ,2011-07-28 Introduces object tracking algorithms from a unified recursive Bayesian perspective along with performance bounds and illustrative examples

Complex-Valued Neural Networks: Utilizing High-Dimensional Parameters Nitta, Tohru,2009-02-28 This book covers the current state of the art theories

and applications of neural networks with high dimensional parameters Provided by publisher **Radar System Analysis and Modeling** David K. Barton, 2004-10-01 A thorough update to the Artech House classic Modern Radar Systems Analysis this reference is a comprehensive and cohesive introduction to radar systems design and performance estimation It offers you the knowledge you need to specify evaluate or apply radar technology in civilian or military systems The book presents accurate detection range equations that let you realistically estimate radar performance in a variety of practical situations With its clear easy to understand language you quickly learn the tradeoffs between choice of wavelength and radar performance and see the inherent advantages and limitations associated with each radar band You find modeling procedures to help you analyze enemy systems or evaluate radar integrated into new weapon systems The book covers ECM and ECCM for both surveillance and tracking to help you estimate the effects of active and passive ECM select hardware software for reconnaissance or jamming and plan the operation of EW systems As radar systems evolve this book provides the equations needed to calculate and evaluate the performance of the latest advances in radar technology

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Introduction

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