

Bayesian Multiple Target Tracking

SECOND EDITION



Lawrence D. Stone
Roy L. Streit
Thomas L. Corwin
Kristine L. Bell

Bayesian Multiple Target Tracking Second Edition

Bayesian Multiple Target Tracking Second Edition

Nickolas Kingsley, Joseph R. Guerci



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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

Practical Geolocation for Electronic Warfare Using MATLAB Nicholas O'Donoughue, 2022-06-30 This text explores the practical realities that arise from the employment of geolocation for electronic warfare in real world systems including position of the target errors in sensor position orientation or velocity and the impact of repeated measurements over time The problems solved in the book have direct relevance to accurately locating and tracking UAVs planes and ships As a companion volume to the author's previous book Emitter Detection and Geolocation for Electronic Warfare Artech House 2019 this book goes in depth on real world complications that include working within and converting between different coordinate systems incorporation of prior information about targets sensor uncertainties the use of multiple snapshots over time and estimating the current position and velocity of moving targets The e book version described here includes several links to software and videos that can be downloaded from the publicly available Git repository The book also includes all MATLAB code necessary to develop novel algorithms that allow comparisons to classical techniques and enable you to account for errors in timing position velocity or orientation of the sensors With its unique and updated coverage of detailed geolocation techniques and data and easy linkable access to additional software and videos this is a must have book for engineers and electronic warfare practitioners who need the best information available on the development or employment of geolocation algorithms It is also a useful teaching resource for faculty and students in engineering departments covering RF signal processing topics as well as anyone interested in novel applications of SDR's and UAVs

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

Analytic Combinatorics for Multiple Object Tracking Roy Streit,Robert Blair Angle,Murat Efe,2020-11-26 The book shows that the analytic combinatorics AC method encodes the combinatorial problems of multiple object tracking without information loss into the derivatives of a generating function GF The book lays out an easy to follow path from theory to practice and includes salient AC application examples Since GFs are not widely utilized amongst the tracking community the book takes the reader from the basics of the subject to applications of theory starting from the simplest problem of single object tracking and advancing chapter by chapter to more challenging multi object tracking problems Many established tracking filters e g Bayes Markov PDA JPDA IPDA JIPDA CPHD PHD multi Bernoulli MBM LMBM and MHT are derived in this manner with simplicity economy and considerable clarity The AC method gives significant and fresh insights into the modeling assumptions of these filters and thereby also shows the potential utility of various approximation methods that are well established techniques in applied mathematics and physics but are new to tracking These unexplored possibilities are reviewed in the final chapter of the book **Introduction to Bayesian Tracking and Particle Filters** Lawrence D.

Stone,Roy L. Streit,Stephen L. Anderson,2023-05-31 This book provides a quick but insightful introduction to Bayesian tracking and particle filtering for a person who has some background in probability and statistics and wishes to learn the basics of single target tracking It also introduces the reader to multiple target tracking by presenting useful approximate methods that are easy to implement compared to full blown multiple target trackers The book presents the basic concepts of Bayesian inference and demonstrates the power of the Bayesian method through numerous applications of particle filters to tracking and smoothing problems It emphasizes target motion models that incorporate knowledge about the target s behavior in a natural fashion rather than assumptions made for mathematical convenience The background provided by this book allows a person to quickly become a productive member of a project team using Bayesian filtering and to develop new methods and techniques for problems the team may face **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 Nonlinear Gaussian Filtering : Theory, Algorithms, and Applications Huber, Marco,2015-03-11 By restricting to Gaussian distributions the optimal Bayesian filtering problem can be transformed into an algebraically simple form which allows for computationally efficient algorithms Three problem settings are discussed in this thesis 1 filtering with Gaussians only 2 Gaussian mixture filtering for strong nonlinearities 3 Gaussian process filtering for purely data driven scenarios For each setting efficient algorithms are derived and applied to real world problems Signal Processing for Joint Radar Communications Kumar Vijay Mishra,M. R. Bhavani Shankar,Bjorn Ottersten,A. Lee Swindlehurst,2024-04-23 A one stop comprehensive source for the latest research in joint radar communications In Signal Processing for Joint Radar Communications a trio of eminent electrical engineers delivers a practical and informative contribution to the diffusion of newly developed joint radar communications JRC tools into the radar and communications communities and to illustrate recent successes in applying modern signal processing theories to core problems in JRC The book offers new results on algorithmic methods and applications of JRC in diverse areas including autonomous vehicles waveform design information theory privacy security beamforming estimation theory and sampling The distinguished editors bring together contributions from leading JRC researchers working in radar systems remote sensing electromagnetics optimization and signal processing The included resources provide an in depth mathematical treatment of relevant signal processing tools and computational methods allowing readers to take full advantage of JRC systems Readers will also find Thorough introductions to joint radar communications theory and applications joint precoding and beamforming and communications based JRC Comprehensive explorations of JRC processing via matrix completion interference mitigation techniques and jamming and clutter in JRC Practical discussions of information theoretic aspects of JRC optimization aspects of JRC and JRC resource allocation In depth examinations of cognition and JRC automotive JRC and dual function radar communications Perfect for researchers and professionals in the fields of radar signal processing communications and electronic warfare Signal Processing for Joint Radar Communications will also earn a place in the libraries of engineers working in the defense aerospace and automotive industries **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 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

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