

Multiple Target Tracking With Radar Applications

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China claims to have developed a special radar that can detect stealth aircraft. Here's What You Need to Know : The vulnerability of stealth aircraft to low-frequency beams has not escaped the notice ...

[U.S. Stealth Fighter Jets Are a Problem For China - But Beijing Says It Has the Answer](#)

With a multi-static system there is a greater chance that such a radar target is seen, as there are multiple different ... performed the first aircraft tracking radar experiment by detecting ...

[Building Your Own SDR-based Passive Radar On A Shoestring](#)

The U.S. Army successfully engaged a cruise missile target in an highly contested electronic attack environment during a developmental flight test using the Nor ...

[ICBS, G/ATOR flight test successfully demonstrates joint engagement in electronic attack environment](#)

As of May 1962, the United States military was using three major classifications of radar ... multiple target repeater, the AN/ALQ-55 communications link disrupter, and the AN/ALQ-41 and -51 ...

[Retrotechtacular: Radar Jamming](#)

In the second and concluding part of my series of what's happening in the world of UFOs/UAPs, I set out the astonishing proof that indicates we are regularly being visited by super-intelligent ...

[The evidence of encounters with UFOs is mounting, uncontestable and, thank goodness, being taken seriously for the first time](#)

His \$20 price target implies an upside of ~100% for the coming months. (To watch Savageaux's track record, click here) SC Health appears to be flying under the Street's radar and currently ...

[These 2 Under-the-Radar Stocks Could Double \(or More\), Say Analysts](#)

The report said the 2020 drop "was almost certainly COVID-related," and while that could be due to a spillover effect in the first six months of 2021, multiple litigators pointed ... an alternate ...

[3 Trends On The Securities Litigation Radar: Midyear Report](#)

The radar post-processing, which is handling object classification and tracking ... (accumulating data from multiple antennas and radar pulses), followed by first target detections using constant ...

[Radar Systems for Autonomous Driving at L2/L2+ and Beyond](#)

Israel Aerospace Industries (IAI) announced on 2 July that an unnamed country in South Asia has bought dozens of ELI-4030 Drone Guard C-UAS systems in a deal worth [tens of millions of [US] dollars].

[Dozens of Drone Guards are Asia-bound](#)

West Ham's David Moyes is urged to chase a proven striker this transfer window Moyes has Barcelona striker Martin Braithwaite on his radar Financial flexibility could hinder West Ham's pursuit of ...

[Transfer Rumors: Multiple Clubs May Give Barcelona's Danish Striker Better Opportunity To Shine](#)

Israeli company Aeronautics presents its full range of small Unmanned Aerial Systems (UASs) Orbiter at DEFEA 2021, the International Defense Exhibition that takes place in Athens, Greece from 13 to 15 ...

[DEFEA 2021: Aeronautics presents its family of small UASs Orbiter](#)

Steely might not be the best horse trained by Gerald Ryan and Sterling Alexiou but he has been the stable's standard-bearer this season ...

[Steely-eyed winner still under the radar](#)

The system applies complex computer algorithms to judge a target's speed and altitude ... aircraft properly to allied acquisition and tracking radar controllers or a failure of the Patriot ...

[Fact: U.S. Air Force Pilots Hated and Feared Army Patriot Missiles](#)

MLB Draft is in the books! You can find results and scouting reports from every round in our draft database. Below, find one under-the-radar pick from each team we like. Angels: Mason Albright, LHP ...

[One Underrated 2021 MLB Draft Pick We Like From All 30 Teams](#)

While some issues are less dangerous, allowing attackers to steal SMS messages from the target device (only by ... and has gotten the CVE-2021-25356 tracking number. Users are advised to update ...

[Samsung phones at risk of multiple spying and takeover attacks](#)

Even when a threat vector is identified so as to constrain the radar surveillance volume, the detection and tracking timeline for single or multiple inbound missiles whose radar return may be ...

[Radar-Equipped Drones May Protect U.S. Navy Ships From Mach 10 Hypersonic Missiles](#)

The systems are intended to [detect, track, identify, designate and neutralize] hostile drones, and a Laser-DEW is essentially required as a [kill option].

[IAF plans to buy 10 anti-drone systems from Indian vendors after Jammu air base attack](#)

Pharmaceutical companies can be a great investment. Especially for investors in search of long-term growth candidates for their portfolio. A successful new drug or treatment is covered by patents for ...

[7 Top-Rated Pharmaceutical Companies to Invest In for July](#)

However, we do expect to see the \$499 PS5 Disc console and \$399 PS5 Digital Edition in stock throughout the week at multiple ... to buy PS5 from Target: Follow our PS5 restock tracker account ...

[PS5 restock update: Best Buy has the PS5 in stock - here's how to buy it](#)

While multiple tornado warnings were issued early ... We will continue to analyze radar data to target phone calls and monitor the situation. Haines said. Tropical storm warnings were canceled ...

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.

Tracking a time-varying number of targets is a challenging dynamic state estimation problem whose complexity is intensified under low signal-to-noise ratio (SNR) or high clutter conditions. This is important, for example, when tracking multiple, closely spaced targets moving in the same direction such as a convoy of low observable vehicles moving through a forest or multiple targets moving in a crisscross pattern. The SNR in these applications is usually low as the reflected signals from the targets are weak or the noise level is very high. An effective approach for detecting and tracking a single target under low SNR conditions is the track-before-detect filter (TBDF) that uses unthresholded measurements. However, the TBDF has only been used to track a small fixed number of targets at low SNR. This work proposes a new multiple target TBDF approach to track a dynamically varying number of targets under the recursive Bayesian framework. For a given maximum number of targets, the state estimates are obtained by estimating the joint multiple target posterior probability density function under all possible target existence combinations. The estimation of the corresponding target existence combination probabilities and the target existence probabilities are also derived. A feasible sequential Monte Carlo (SMC) based implementation algorithm is proposed. The approximation accuracy of the SMC method with a reduced number of particles is improved by an efficient proposal density function that partitions the multiple target space into a single target space. The proposed multiple target TBDF method is extended to track targets in sea clutter using highly time-varying radar measurements. A generalized likelihood function for closely spaced multiple targets in compound Gaussian sea clutter is derived together with the maximum likelihood estimate of the model parameters using an iterative fixed point algorithm. The TBDF performance is improved by proposing a computationally feasible method to estimate the space-time covariance matrix of rapidly-varying sea clutter. The method applies the Kronecker product approximation to the covariance matrix and uses particle filtering to solve the resulting dynamic state space model formulation.

Here's a thorough overview of the state-of-the-art in design and implementation of advanced tracking for single and multiple sensor systems. This practical resource provides modern system designers and analysts with in-depth evaluations of sensor management, kinematic and attribute data processing, data association, situation assessment, and modern tracking and data fusion methods as applied in both military and non-military arenas.

A particular multiple target tracking mission was studied to determine the radar requirements. Several phased array radar configurations are described. A limited scan array is selected as the most cost effective. The phased array radar is compared with a net of mechanically scanned radars. The phased array provides a less expensive solution for 3 or more targets. (Author).

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.

Detailed closed-loop bandwidth and transient response approach is a subject rarely found in current literature. This innovative resource offers practical explanations of closed-loop radar tracking techniques in range, Doppler and angle tracking. To address analog closed loop trackers, a review of basic control theory and modeling is included. In addition, control theory, radar receivers, signal processors, and circuitry and algorithms necessary to form the signals needed in a tracker are presented. Digital trackers and multiple target tracking are also covered, focusing on g-h and g-h-k filters. Readers learn techniques for modeling digital, closed-loop trackers. The radar circuitry/block diagrams necessary for range, Doppler and angle tracking are presented and described, with examples and simulations included. Factors such as noise and Swerling type fluctuations are taken into account. In addition to numerous worked examples, this approachable reference includes MATLAB® code associated with analysis, simulations and figures. The book contains solutions to practical problems, making it useful for both novice and advanced radar practitioners. Software will be available for download on this page.

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