

Detection And Parameter Estimation Of Chirped Radar Signals

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Estimation theory - Wikipedia

This course examines the fundamentals of detection and estimation for signal processing, communications, and control. Topics covered include: vector spaces of random variables; Bayesian and Neyman-Pearson hypothesis testing; Bayesian and nonrandom parameter

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estimation; minimum-variance unbiased estimators and the Cramer-Rao bounds; representations for stochastic processes, shaping and ...

Bayesian source detection and parameter estimation of a ...
Principles of Signal Detection and Parameter Estimation. It presents a unified treatment of detection problems arising in radar/sonar signal processing and modern digital communication systems. The material is comprehensive in scope and addresses signal processing and communication applications with an emphasis on fundamental principles.

Stochastic Processes, Detection, and Estimation ...

Abstract: We investigate several target detection and parameter estimation techniques for a multiple-input multiple-output (MIMO) radar system. By transmitting independent waveforms via different antennas, the echoes due to targets at different locations are linearly independent of each other, which allows the direct application of many data-dependent beamforming techniques to achieve high resolution and excellent interference rejection capability.

ADAPTIVE DETECTION AND PARAMETER ESTIMATION FOR ...

The problem of target detection and signal parameter estimation in a background of unknown interference is studied, using a multidimensional generalization of the signal models usually employed for radar, sonar, and similar applications.

Detection And Parameter Estimation Of

This new textbook is for contemporary signal detection and parameter estimation courses offered at the advanced undergraduate and graduate levels. It presents a unified treatment of detection problems arising in radar/sonar signal processing and modern digital communication systems.

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Principles of Signal Detection and Parameter Estimation ...

Detection and parameter estimation of a transient signal using order statistics Abstract: Detection and parameter estimation of a transient signal in noise is a problem of many applications. It is characterized by the fact that some of the measurements consist of noise only.

Principles of Signal Detection and Parameter Estimation ...

The approach not only leads to multiple source detection, but also the characterization and prediction of the combined plume in space and time. The parameter estimation is formulated as a Bayesian inference problem, and the solution is obtained using a Markov chain Monte Carlo algorithm.

Detection and parameter estimation of radioactive sources ...

The detection and parameter estimation of binary black hole mergers Christopher Michael Biver Syracuse University Follow this and additional works at:<https://surface.syr.edu/etd> Part of the Physical Sciences and Mathematics Commons This Dissertation is brought to you for free and open access by the SURFACE at SURFACE.

Adaptive detection and parameter estimation for ...

The parameters describe an underlying physical setting in such a way that their value affects the distribution of the measured data. An estimator attempts to approximate the unknown parameters using the measurements. In estimation theory, two approaches are generally considered.

Detection and parameter estimation of a transient signal ...

DETECTION AND PARAMETER ESTIMATION OF LFM SIGNAL BASED ON CPF The cubic phase function (CPF) was introduced in [8] for the purpose of estimating the instantaneous

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frequency rate law of a quadratic FM signal.

Target detection and parameter estimation for MIMO radar ...
Fast Feature Detection and Stochastic Parameter Estimation of Road Shape using Multiple LIDAR Kevin Peterson, Jason Ziglar, and Paul E. Rybski The Robotics Institute Carnegie Mellon University Pittsburgh, PA 15213 kp@andrew.cmu.edu, jpz@cmu.edu, prybski@cs.cmu.edu Abstract—This paper describes an algorithm for an au-

Multi-signal detection and parameter estimation fusion ...
2.2 Parameter estimation for source localization, 2.3 Kernel density estimation proposed the application of grid search and KDE with MLE for source localization and estimation. In real cases, the calculations are assumed to begin at some moment t when there are signs that some potential radioactive source exists, for example, using k -sigma ...

Detection and Parameter Estimation of Multicomponent LFM ...
Joint detection and parameter estimation problems arise in a wide range of practical applications. For the multi-signal case, one needs to not only determine the presence of signals or not, but also to estimate the number of signals and the corresponding parameters.

The detection and parameter estimation of binary black ...
5. the estimation of signal parameters 59 6. the probability of detection for the glr test 95 7. a generalization of the model 119 appendix 1. mathematical background 133 appendix 2. complex distributions related to the gaussian 167 appendix 3. integration lemmas and integral representations 175 appendix 4.

Detection and parameter estimation of multicomponent LFM ...
Detection and parameter estimation of multiple radioactive sources. ... The second approach estimates the parameters and the number

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of sources in the Bayesian framework via Monte Carlo integration
...

Introduction to Estimation Theory

This paper presents a new method for the detection and parameter estimation of multicomponent LFM signals based on the fractional Fourier transform. For the optimization in the fractional Fourier domain, an algorithm based on Quasi-Newton method is proposed which consists of two steps of searching, leading to a reduction in computation without loss of accuracy.

(PDF) Detection and parameter estimation of multiple ...

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9781441945655: Principles of Signal Detection and ...

In this paper, we consider the coherent detection and parameters estimation problem for a radar moving target with unknown entry time and departure time (that is, the time when the target appears ...

Fast Feature Detection and Stochastic Parameter Estimation ...
Estimation and Confidence Intervals - Duration: 11:47. Rahul Patwari 105,471 views

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