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Therefore new concepts for autonomous map representations are given in this book, based on random finite sets (RFSs). It will be shown that the RFS representation eliminates the necessity of fragile data association and map management routines.

Random Finite Sets for Robot Mapping - link.springer.com
The Entropy of Random Finite Sets Mohammad Rezaeian and Ba-Ngu Vo Department of Electrical and Electronic Engineering, University of Melbourne, Victoria, 3010, Australia

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RANDOM FINITE SETS AND SEQUENTIAL MONTE CARLO METHODS IN MULTI-TARGET TRACKING Ba-Ngu Vo, Sumeetpal Singh and Arnaud Doucet* Department of Electrical and Electronic Engineering,

RANDOM FINITE SETS AND SEQUENTIAL MONTE CARLO METHODS IN
A random finite set (RFS) is an unordered finite set that is random in the number of its elements as well as in their values [24].

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Next, the theory of Random Finite Sets (RFS) as a solu- tion for multiple target tracking, which does not require explicit enumeration of the measurement-to-track associations, will be introduced.

Random Finite Set Methods for Multitarget Tracking
Develop a multi-robot SLAM method based on random finite sets for a sensor generating 3D point clouds. Implement particular parts of the algorithm as ROS (Robot Operating System,

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Robust Distributed Fusion with Labeled Random Finite Sets Suqi Li, Wei Yi*, Reza Hoseinnezhad, Giorgio Battistelli, Bailu Wang, Lingjiang Kong Abstractâ€"This paper considers the problem of the distributed fusion of multi-object posteriors in the labeled random ï¬•nite

Robust Distributed Fusion with Labeled Random Finite Sets
method treats the rate parameter of the Poisson pdf (which characterises the number of measurements generated by a target) as a random variable, whose distribution is modelled as a gamma pdf. This algorithm was called the gamma Gaussian inverse Wishart CPHD (GGIW-CPHD) ï¬•lter. Extended target PHD and CPHD ï¬•lters have also been presented in [32], [33].

Multiple Extended Target Tracking with Labelled Random

1 A Random Finite Set Model for Data Clustering Dinh Phungyand Ba-Ngu Voz yCenter for Pattern Recognition and Data Analytics, Deakin University, Australia zDepartment of Electrical and Computer Engineering, Curtin University, Australia Email: dinh.phung@deakin.edu.au, ba-ngu.vo@curtin.edu.au Abstractâ€"The goal of data clustering is to partition data points

A Random Finite Set Model for Data Clustering - ba-ngu.vo

Random finite sets. A random finite set is a convenient probabilistic model for the representation of multiple stochastic dynamic systems (objects) and sensor measurements. Suppose that at discrete-time k there are n k objects with states x k, 1, â, x k, n k, taking values in the state space X âŠ† R n x.

An overview of particle methods for random finite set

1 A Random Finite Set Approach to Bayesian SLAM John Mullane, Ba-Ngu Vo, Martin D. Adams, Ba-Tuong Vo Abstractâ€"This paper proposes an integrated Bayesian frame- work for feature-based simultaneous localisation and map build-

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The variables Î¾ 1, â€¦, Î¾ n have a joint normal distribution. We are concerned with the calculation or approximation of max(Î¾ 1, â€¦, Î¾ n).Current analyses and tables handle the case in which the Î¾ Ä± are independently distributed with common expected values and common variances. This paper presents formulas and tables for the most general case with n = 2.

The Greatest of a Finite Set of Random Variables

is not a probability density function; and secondly, the PHD recursion is not a standard Bayes recursion. In this paper, a ... A. Random Finite Set Model In a single-target system, the state and measurement at time k are two vectors of possibly different dimensions.

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