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Nonlinear Filtering with IMM Algorithm for Ultra- Tight GPS ...

In this paper, four improved IMM algorithms (EKF-SIMM, EKF-MIMM, UKF-SIMM and UKF-MIMM) are presented for nonlinear maneuvering target

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tracking based on SIMM and MIMM. The proposed improved algorithms can receive the optimal state estimations of target in the nonlinear minimum variance sense.

Radar tracker - Wikipedia

Page 9/46

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In simulation studies, we illustrate the design of the TPM and compare the proposed method with another two IMM-based algorithms where the extended Kalman filter (EKF) and the unscented filter (UF) are used for each

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model, respectively. We conclude that the IMM-LMMSE filter is preferred for the problem being studied.

**Nonlinear Filtering with IMM
Algorithm for Ultra-Tight
GPS ...**

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nonlinear filtering algorithms based on Kalman filter; those are IMM-CMKF and IMM-UKF, for implementation on coastal radar target tracking system. Evaluation is done to find out the performance

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of these algorithms in
condition when radar doesn't
know the real target dynamic

IMM Iterated Extended Particle Filter Algorithm

The algorithm of IMM-
nonlinear filters is

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introduced to deal with the noise uncertainty and system nonlinearity simultaneously. Figure 2 describes the structure of the IMM estimator for the case of r models. Download : Download full-size image; Figure 2.

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The block diagram of the IMM nonlinear filter algorithm (one cycle with r models).

An Improved Interacting Multiple Model Filtering Algorithm ...

The Kalman filter is an

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algorithm (a step-by-step process) that helps people remove errors from numbers. It is named for Rudolf E. Kálmán, a mathematician who helped to make it. The Kalman filter has two steps. The first step is predicting

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(trying to say what you
think will happen).

Nonlinear Filtering With Imm Algorithm

The nonlinear filters have
been incorporated into the

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IMM framework, resulting in the IMMEKF, IMMUKF algorithms. The IMM algorithm has been employed for dynamically adjusting the process noise. The use of an IMM method allows the exploitation of

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the benefits of highly dynamic models in the problem of vehicle navigation.

Kalman filter - Wikipedia

In particular, UKF-MIMM is obviously better than EKF-

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IMM and UKF-IMM in accuracy while EKF-SIMM is superior in elapsed time. Therefore, the proposed algorithms can be competitive alternatives to the classical IMM-based filter algorithms for nonlinear maneuvering target

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tracking.

Nonlinear Filtering with IMM Algorithm for Coastal Radar

...

The IMM based nonlinear
filtering approach
demonstrates the

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effectiveness of the
algorithm for improved
positioning performance.

An IMM Algorithm for Tracking Maneuvering Vehicles in an ...

The IMM estimation algorithm

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is one of the cost-effective adaptive estimation algorithm for systems involving parametric changes. The combination of IMM with UKF could deal with the problem of nonlinear filtering with uncertain

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noise. Simulation results show that the method can improve the accuracy of INS/GPS/odometer integrated navigation.

Improved IMM Algorithm for Nonlinear Maneuvering Target

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We use a simulation of a nonlinear problem to compare the results of these new algorithms to the Interactive Multiple Model (IMM) algorithm that uses the extended Kalman filter.

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We observe that the...

**(PDF) Nonlinear filtering
with IMM algorithm for ultra**

...

A performance comparison
among various filtering
methods for ultra-tight

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integration of GPS and INS is also presented. The IMM based nonlinear filtering approach demonstrates the effectiveness of the algorithm for improved positioning performance

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**Maneuvering Target Tracking
Algorithm Based on
Interacting ...**

Nonlinear tracking algorithms. Non-linear tracking algorithms use a Non-linear filter to cope with the situation where the

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measurements have a non-linear relationship to the final track coordinates, where the errors are non-Gaussian, or where the motion update model is non-linear. The most common non-linear filters are: the

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Extended Kalman filter

Nonlinear IMM-SUKF Algorithm for Maneuvering Target ...

In this paper, the
interacting multiple models
five degree cubature Kalman
filter (IMM5CKF) based on a

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five degree cubature Kalman filter and IMM algorithm is proposed to improve the tracking accuracy, model estimation accuracy and quick response of target tracking algorithms.

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**Improved IMM algorithm for
nonlinear maneuvering target**

...

An IMM Algorithm for
Tracking Maneuvering
Vehicles in an Adaptive
Cruise Control Environment
Yong-Shik Kim and Keum-Shik

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Hong* Abstract: In this paper, an unscented Kalman filter (UKF) for curvilinear motions in an interacting multiple model (IMM) algorithm to track a maneuvering vehicle on a road is investigated.

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IMM-LMMSE filtering algorithm for ballistic target ...

In this paper, we present an efficient filtering algorithm to perform accurate estimation in jump

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Markov nonlinear systems, which we aim to contribute in solving the problem of model-based body motion estimation using bearings-only measurement, the Interacting Multiple Model (IMM) algorithm is speci

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Federated IMM-UKF Algorithm for Multi-Sensor Data Fusion

The algorithm of IMM-
nonlinear filters is
introduced to deal with the
noise uncertainty and system
nonlinearity simultaneously.

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Let a general system for multiple models in discrete time be described by: $x_{k+1} = f(x_k, k, M_k) + w(x_k, M_k)$ (2a)

**(PDF) A Nonlinear Filtering
Algorithm For Multi-Models**

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Abstract. In order to solve the tracking problem of radar maneuvering target in nonlinear system model and non-Gaussian noise background, this paper puts forward one interacting multiple model (IMM)

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iterated extended particle filter algorithm (IMM-IEHPF). The algorithm makes use of multiple modes to model the target motion form to track any maneuvering target and each mode uses iterated ...

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Nonlinear Filtering with IMM Algorithm for Ultra-Tight GPS ...

using nonlinear filtering
approaches with an
interacting multiple model
(IMM) algorithm. An

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ultra-tight GPS/INS architecture involves the integration of in-phase and quadrature components from the correlator of a GPS receiver with INS data. An unscented Kalman filter

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IMM-UKF Algorithm and IMM- EKF Algorithm for Tracking

...

CIF is a multisensor
nonlinear filtering
algorithm; it evaluates the
information vector and
information matrix rather

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than state vector and covariance, which can reduce the error of nonlinear filtering algorithm. IMM disposes all the models simultaneously through Markov Chain, which can enhance the quick response

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of the filter.

**GPS/INS Integration Accuracy
Enhancement Using the ...**

nonlinear, the IMM algorithm
must be modified in order to
guarantee an accurate track.
In this paper we propose to

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compare the results given by an IMM algorithm Extended Kalman filter based (IMM-EKF) versus those given by an IMM algorithm Unscented Kalman filter based (IMM-UKF) in tracking target assumed to be highly

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