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DOI: 10.1109/ACC.2013.6579849 Corpus ID: 584241. Nonlinear observer for GNSS-aided inertial navigation with quaternion-based attitude estimation

@article{Grip2013NonlinearOF,
title={Nonlinear observer for GNSS-aided inertial navigation with quaternion-based attitude estimation}, author={H. F. Grip and T. Fossen and T. Johansen and A. Saberi}, journal={2013 American Control Conference}, year ...

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~~Figure 4 from Nonlinear observer for GNSS-aided inertial ...~~

A nonlinear observer structure for estimating position, velocity and attitude in a GNSS/INS system with delayed GNSS-measurements is proposed. The structur Nonlinear observer for INS aided by time-delayed GNSS measurements: Implementation and UAV experiments - IEEE Conference Publication

~~Nonlinear observer for INS aided by time-delayed GNSS ...~~

A modular nonlinear observer for inertial

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navigation aided by pseudo-range measurements is designed and analyzed. The attitude observer is based on a recent nonlinear complementary filter that uses magnetometer and accelerometer vector measurements to correct the quaternion attitude estimate driven by gyro measurements, including gyro bias estimation.

~~Nonlinear Observer for Tightly Integrated Inertial ...~~

The integration filter is nonlinear both in state and measurements, and the extended Kalman-filter has been used with good

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results, but it has not been proven globally stable, and it is also...

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Nonlinear Observer for INS Aided by Time-Delayed GNSS Measurements: Implementation and UAV Experiments Jakob Mahler Hansen¹, Thor I. Fossen¹, Tor Arne Johansen¹ Abstract—A nonlinear observer structure for estimating position, velocity and attitude in a GNSS/INS system with delayed GNSS-measurements is proposed.

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Nonlinear Observer for GNSS-Aided Inertial Navigation with Quaternion-Based Attitude Estimation Håvard Fjær Grip, Thor I. Fossen, Tor A. Johansen, and Ali Saberi Abstract—For applications with limited computational capacity, observers designed based on nonlinear stability theory offer an alternative to computationally demanding extended

~~Nonlinear Observer for GNSS Aided Inertial Navigation with ...~~

In this paper, we present a semiglobally stable nonlinear observer for estimating position, velocity, attitude, and gyro bias

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by combining a GNSS receiver with an inertial measurement unit...

~~Nonlinear observer for GNSS aided inertial navigation with ...~~

The resulting system is a strapdown INS aided by GNSS measurements where the observer produces high sample rate state estimates.

The integration of inertial and GNSS measurements have traditionally been achieved using Kalman filters (KF) or extended Kalman filters (EKF) for nonlinear systems, see e.g. Grewal, Weill, and Andrews (2007) .

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~~Nonlinear observer design for GNSS aided
inertial ...~~

sion of the nonlinear observer to time-
delayed position measurements. The observer
makes a correction to the delayed state using
the delayed GNSS measurement, which are
integrated with delayed INS position
estimates. The method can be generally applied
to other GNSS/INS integration schemes that
employ other state estimation algorithms. The

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Nonlinear Observers for GNSS- and Camera-

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Aided Inertial Navigation of a Fixed-Wing UAV
Abstract: In this paper, exponentially stable nonlinear observers for the estimation of position, velocity, specific force, attitude, and gyro bias of a fixed-wing unmanned aerial vehicle (UAV) are proposed. The sensor suite consists of an inertial ...

~~Nonlinear Observers for GNSS and Camera
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Nonlinear Observer with Time-Varying Gains
for Inertial Navigation Aided by Satellite
Reference Systems in Dynamic Positioning
Torleiv Håland Bryne, Thor I. Fossen and Tor

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A. Johansen Abstract—The measurement quality of Global Navigation Satellites Systems (GNSS) during marine operations will vary over time.

~~Nonlinear Observer with Time Varying Gains for Inertial ...~~

In this paper we present a nonlinear observer for tight integration of GPS and INS that has been designed using nonlinear system design methodologies. This observer estimates IMU and GPS errors directly within the nonlinear strapdown equations. The corrected INS measurements are us..

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Measurements J. Dyn. Sys., Meas., Control
(January, 2017) On the Observability of
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Integrations With Five Degree of Freedom and
Four Degree of Freedom Inertial Measurement
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~~Redundant MEMS Based Inertial Navigation
Using Nonlinear ...~~

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In this paper we present a nonlinear observer for tight integration of GPS and INS that has been designed using nonlinear system design methodologies. This observer estimates IMU and GPS errors directly within the nonlinear strapdown equations. The corrected INS measurements are us...

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Sammendrag. This thesis focuses on
strapdowninertial navigation systems for
marine vessels, exploiting low-cost micro-

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electro-mechanical-systems (MEMS) inertial sensors and nonlinear observers for sensor fusion. The motivation behind the research is to investigate the possibility to develop cost-effective inertial navigation systems providing, roll, pitch and heave estimates, similar to typical maritime vertical reference units (VRUs), while providing ...

~~NTNU Open: Nonlinear Observer Design for
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A Uniformly Semiglobally Exponentially Stable
Nonlinear Observer for GNSS- and Camera-Aided
Inertial Navigation L. Fusini, T. I. Fossen

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and T. A. Johansen Abstract—In this paper a nonlinear observer design for estimation of position, velocity, acceleration, attitude and gyro bias of an Unmanned Aerial Vehicle (UAV) is proposed. The

~~A Uniformly Semiglobally Exponentially Stable
Nonlinear ...~~

The proposed system is a cascade interconnection between a globally exponentially stable (GES) nonlinear observer (NLO) and a time-varying Kalman filter based on a local linearization of the system equations about the output of the preceding

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NLO.

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