

passive satellite pose estimation pdf

Pose estimation of an uncooperative spacecraft from actual space imagery ... The aim is to estimate the pose of a passive ... collected on-board the active spacecraft. In contrast to previous work, no supportive means are available on the target satellite (e.g., light emitting diodes) and no a-priori knowledge of ...

Pose estimation of an uncooperative spacecraft from actual

Pose Estimation and Relative Orbit Determination of a Nearby Target Microsatellite using Passive Imagery
Dr. A. Cropp, Dr. P. Palmer, Surrey Space Centre, University of Surrey, Guildford, Surrey GU2-7XH Abstract
This paper highlights a novel method for estimating the relative position and orientation of a known target satellite using only ...

Pose Estimation and Relative Orbit Determination of a

Pose Estimation of Target Satellite for Proximity Operations A. Cropp, Dr P. Palmer, Dr C.I. Underwood
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x2692 Fax: +44 (0) 1483 259503 Email: a.cropp@eim.surrey.ac.uk Abstract .

Pose Estimation of Target Satellite for Proximity Operations

The aim is to estimate the pose of a passive space resident object using its known three-dimensional model and single low-resolution two-dimensional images collected on-board the active spacecraft.

Pose Estimation of an Uncooperative Spacecraft from Actual

also presented a satellite vision system based on pose estimation [5]. Cropp et al. have presented a method for estimating the relative position and orientation of a known target satellite by using only passive imagery [6]. Cropp et al. have used target images generated synthetically [7]. A cognitively-controlled vision system for

Far and proximity maneuvers of a constellation of service

HIERARCHICAL POSE ESTIMATION FROM RANGE DATA FOR SPACE APPLICATIONS ... An emerging application for computer vision systems is satellite servicing, involving pose estimation and tracking. Trackers are available but they often require ... position and orientation of a known target satellite using only passive imagery. Their

HIERARCHICAL POSE ESTIMATION FROM RANGE DATA FOR SPACE

Relative pose and shape can be reconstructed by means of images taken by a passive camera. A navigation algorithm is built, which merges images in a filter to estimate satellite's state. The results prove that the estimation process is fulfilled satisfactorily.

A passive camera based determination of a non-cooperative

Uncooperative Spacecraft Pose Estimation Using an Infrared Camera During Proximity Operations Jian-Feng Shi, Steve Ulrichy Carleton University, Ottawa, Ontario K1S 5B6, Canada ... SB describe the client satellite (CS) and SS Centre of Mass (COM) frame of reference respectively.

Uncooperative Spacecraft Pose Estimation Using an Infrared

difficulties exclude passive stereo from being adopted in 3D hand pose tracking/estimation. All available hand pose tracking/estimation data sets [1], [9], [10], [13], [18], [20] are captured with active depth sensors. To evaluate the performance of passive stereo for hand pose tracking and estimation, a new benchmark is

proposed in this paper.

JOURNAL OF LA 3D Hand Pose Tracking and Estimation Using

This paper presents the design of a pose estimation method for autonomous robotic ... of passive retro-reflectors, and image pattern analysis to estimate its relative pose.⁵ However, when the target spacecraft is not equipped with known markers, such cooperative pose estimation ... SB describe the client satellite (CS) and SS Centre of Mass (COM) ...

Uncooperative Spacecraft Pose Estimation Using an Infrared

passive satellite ENVISAT which may be out of control, performing tumbling motions and which is uncooperative in the sense that it is not controlled and ... The pose estimation data comprises the 3D position of the target frame w.r.t. the chaser frame, the attitude of .

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