

Fundamentals Of High Accuracy Inertial Navigation

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The key technology toward the self-driving car | Emerald ...

Therefore, obtaining high-accuracy location under high-speed condition is a future research direction. The special EM for self-driving car: in recent times, the general EM is utilized in self-driving, while it is necessary to develop a special EM for a self-driving car to consider the human identity, i.e. hobby of human, profession of human, which can reduce the response time of EM.

Beam Width - an overview | ScienceDirect Topics

The 3-sigma total pointing accuracy is defined as $(3 \times \text{jitter} + \text{bias})$. The angular width of a 1000-nm laser beam transmitted through a 30-cm-diameter telescope is approximately 3.3 μrad . In this example, a 2-dB pointing loss allocation with a 1-% PIF requires a total (3-sigma) pointing accuracy of 2 μrad .

A Fast Iterative Shrinkage-Thresholding Algorithm for ...

(2021) Deep learning-based method for multiple sound source localization with high resolution and accuracy. Mechanical Systems and Signal Processing 161 , 107959.

(2021) On convergence and complexity analysis of an accelerated forward–backward algorithm with linesearch technique for convex minimization problems and applications to data prediction and classification.

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Driver behaviour modelling of vehicles at signalized ...

23/12/2021 · Here the authors claimed an improvement of 43% in the accuracy using this method. Jiang integrated adaptive Kalman filter with H-infinity filter to construct a robust filter to remove outliers. The scheme was validated with field data collected using integration of Inertial Navigation System (INS) and Global Positioning System (GPS).

Journal of Physics B: Atomic, Molecular and Optical ...

Journal of Physics B: Atomic, Molecular and Optical Physics covers the study of atoms, ions, molecules and clusters, and their structure and interactions with particles, photons or fields.

List of EE courses – Department of Electrical Engineering

Course No : EE1100 Course Title : Basic Electrical Engineering Pre Requisite :
Extended Tutorial: 0 Outside Class Hours : 6 Total Hours PerWeek : 10 Description :
This course provides a comprehensive understanding and applications of DC and AC circuits used in electrical and electronic devices, parameters of electrical circuits, single phase, three phase circuits, diodes ...

NASA SBIR/STTR 2022 Program Solicitation Details | | NASA ...

Subsystem and components for high-performance and high-accuracy optical clocks, mostly notably Sr and Yb lattice clocks as well as Sr⁺ and Yb⁺ singly trapped ion clocks. They comprise atomic physics packages, which are necessarily laser systems, and include clock lasers, optical frequency combs, as well as advanced electronics and controllers based on microprocessors ...

A Review of Actuation and Sensing Mechanisms in MEMS-Based ...

26/1/2021 · The proposed accelerometer can be used for improvements in MEMS inertial navigation devices. Another model is the Fabry–Perot optical sensor [137]. Basically stated, the principles of this sensor are based on bringing gas into a chamber and a short time later going light through the chamber.

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