Research methods for solar container field positioning

Considering the performance demonstrated by the proposed solar position sensor, coupled with its straightforward modeling and assembly compared to position sensors documented in the literature, it ...

Therefore, we propose the first large-scale container dataset in this work, containing 1700 container images and 4810 container hole images, for benchmarking container hole location and detection.

This interpolation position and method can increase a simulation"s accuracy by creating new weather data in areas where no solar radiation data are available. BUILDIT, as a ...

Through this study, we aim to gain a clearer understanding of the NRTK positioning accuracy and ambiguity fixing rate during low and high ionospheric activity. Further, we investigate ...

This project develops a software decision tool that uses innovative optimization methods to determine the best layout for the solar collection field of a concentrating solar power (CSP) central receiver plant.

Visual evidence: Storm pushes auroras further to the equator During the most intense phase of the superstorm, extreme solar activity compressed Earth"s magnetic field, allowing charged particles ...

This paper analyzes the problems of existing container positioning methods and proposed a vision-based container position measuring system to provide precise parameters for container lifting ...

Additionally, we aim to identify the optimal time of day for achieving the desired RTK positioning accuracy, thus providing guidance for field engineering surveys. Therefore, this paper ...

In order to satisfy the polarization navigation requirements for the solar position calculation, a new method based on improved polarization angle model by using a three-channel ...

Container positioning is a vital part of their strategy. Instead of minimizing costs of moving empty units as preferred in the literature, this paper presents a formulation that optimizes the trade-off between ...

The method captured the polarization data and based on it, the solar position can be figured out through clustering. However, in actual navigation applications, the precision of the solar ...

To this end, a morphology and coordinate fusion based positioning method is proposed to discern accurately and efficiently the position offsets and the angle deflection of a cell.

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Systems and methods for positioning solar energy collection devices are disclosed. In one embodiment, an integrated unit combines the necessity of solar panel repositioning with...

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