Three-dimensional communication indoor small base station

Overview

Abstract: Aiming at the problem that the indoor three-dimensional positioning algorithm is complex and the accuracy is not high, this paper proposes a three-dimensional wireless positioning method based on symmetric Bluetooth base station.

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In this paper, a UWB-based circular antenna array single base station is designed for indoor space single base station 3D positioning problem, and the joint Time of Arrival (TOA)/Angle of Arrival (AOA) positioning estimation algorithm is studied. In terms of direction finding, a five-array element.

Ultrawideband (UWB) technology has been used for indoor location estimation due to its excellent ranging performance. However, the accuracy of the location estimation results is heavily affected by the deployment of base stations; in particular, the base station deployment space is limited in.

Abstract: Aiming at the problem that the indoor three-dimensional positioning algorithm is complex and the accuracy is not high, this paper proposes a three-dimensional wireless positioning method based on symmetric Bluetooth base station. First, several groups of Bluetooth base stations are placed.

This example shows how to train a convolutional neural network (CNN) for high-precision positioning by using generated IEEE® 802.11az™ data. Using the trained CNN, you can predict the precise position of multiple stations (STAs) or the room that STAs are located in based on fingerprinting. The.

In this paper, the improved Chan algorithm based on signal TOA data (the improvement using the weighted minimum mean square error method) is used to calculate the terminal position coordinates, and then the partial least squares regression analysis is used to perform regression analysis and error.

The invention discloses an indoor three-dimensional positioning algorithm based

on a wireless communication base station, which comprises the following steps: firstly, aiming at the problems that in an indoor scene, GPS and Wi-Fi equipment are poor in positioning performance, limited in coverage.

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Research on 3D Positioning Technology of UWB Single Base Station

In future studies, this paper will continue to find a method to suppress the ranging and angle measurement error based on the 3D positioning technology of UWB single base ...

A 3D Indoor Positioning Method of Wireless Network with Single Base

We propose a method to realize 3-dimensional indoor positioning with single base station by using multipath channel. The angles of multipath coherent signals are estimated by ...

Three-dimensional wireless positioning method based on ...

Abstract: Aiming at the problem that the indoor three-dimensional positioning algorithm is complex and the accuracy is not high, this paper proposes a three-dimensional wireless positioning ...

An efficient three-dimensional indoor visible light positioning

Indoor visible light positioning system has received much attention in recent years due to the simultaneous operation of optical wireless

communication and object tracking. ...

Three-Dimensional Indoor Positioning with 802.11az ...

Using the trained CNN, you can predict the precise position of multiple stations (STAs) or the room that STAs are located in based on fingerprinting. The example obtains the dataset used ...

A 3D Indoor Positioning Method of Wireless ...

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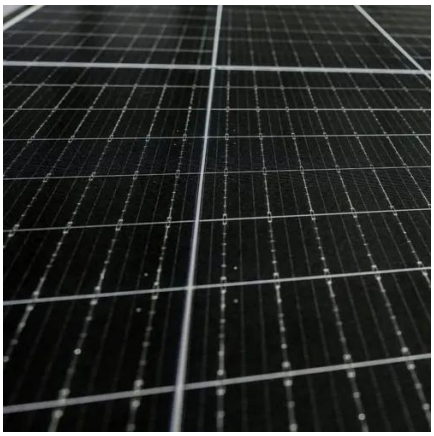

An Indoor UWB 3D Positioning Method for Coplanar Base ...

In this paper, we mathematically analyze the impact of the localization solution for coplanar base stations and derive the expression for the localization accuracy performance.

A 3D Indoor Positioning Method of Wireless Network with Single Base

In this paper, we propose a 3-dimensional (3D) indoor positioning method based on multipath information, which makes full use of OFDM technology and MIMO array antenna ...

[Wireless Communication Base Station-Based Indoor 3D ...]

Compared to GPS and other commercial satellite positioning system, WCBS-based indoor 3D target positioning system has the following characteristics: 1) The target area of ...

3-D indoor positioning method using a single compact base station

In this paper, a step towards consumer location systems is taken by proposing an ultrasonic positioning method that needs just a single compact base station to measure 3D ...

Research on 3D Positioning Technology of UWB Single Base ...

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Three-Dimensional Indoor Positioning with ...

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The invention relates to the technical field of flow shop scheduling, in particular to an indoor three-dimensional positioning algorithm based on a wireless communication base ...

An Indoor UWB 3D Positioning Method for Coplanar Base Stations ...

In this paper, we mathematically analyze the impact of the localization solution for coplanar base stations and derive the expression for the localization accuracy performance.

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