

Tilted Optical Receiver



Overview

The tilted optical receiver is mounted on a rotatable platform and thus, various azimuth angles can be obtained by rotating the platform, which offers a feasible way to perform multiple measurements with different azimuth angles to achieve the angle gain. 2012-11-20 Assigned to SEMTECH CANADA INC. CORRECTIVE ASSIGNMENT TO CORRECT THE ERROR PREVIOUSLY RECORDED ON REEL 028333 FRAME 0287.

Assignors: GENNUM. Conventional visible light positioning (VLP) systems usually require at least three light-emitting diodes (LEDs) to enable trilateration or triangulation, which is infeasible when the LED condition is constrained. 3V or 5V DC power supply The Firecomms DC to 10 MBd transmitter incorporates a highly reliable resonant cavity light emitting diode (RCLED) and an integrated driver IC, and is housed in a miniature package to interface. Optical Engineering is an SPIE journal that publishes peer-reviewed articles reporting on research, development, and applications of optics and photonics. However, unfortunately, few algorithms can be applied to the case that the receiver is tilted.



Article Content

Three-dimensional indoor visible light positioning system with a single ...

A novel concept is proposed for integrating optical wireless visible light communications with 3-D indoor positioning

A Two-LED Based Indoor Three-Dimensional Visible

In this paper, we propose a novel indoor three-dimensional (3D) VLP and orienteering

An efficient three-dimensional indoor visible light positioning ...

However, the presence of multiple receivers by maintaining a certain distance will increase the size of optical receiver,

Visible light indoor positioning fashioned with a single tilted optical ...

The tilted optical receiver is mounted on a rotatable platform and thus, various azimuth angles can be obtained by rotating the

Myopic tilted disc: Mechanism, clinical significance, and ...

Myopic tilted disc has been extensively investigated by different study groups. However, generalizing the knowledge

An experimental evaluation of a 3D visible light positioning system in ...

An experimental evaluation of a 3D visible light positioning system in an industrial environment with receiver tilt and

A Tilt Visible Light Positioning System Based on Double LEDs and

Therefore, it is necessary to develop a novel VLP algorithm for tilted conditions. An effective and simple VLP system

Impact of receiver's tilted angle on the channel ...

Request PDF | On Feb 8, 2017, Jin-Yuan Wang and others published Impact of receiver's tilted angle on the channel capacity in

Visible light indoor positioning fashioned with a single tilted optical ...

Abstract: We propose a compact visible light indoor positioning system fashioned with a single transmitter and a single tilted receiver.

A Tilt Receiver Correction Method for Visible Light Positioning Using ...

In recent years, a visible light positioning (VLP) technology based on complementary metal-oxide-semiconductor

Visible light indoor positioning system based on gain difference ...

We propose an artificially tilted multiple optical receivers structure to control incidence angle gain and positioning

AFBR-2541CZ

The Broadcom AFBR-2541CZ is a DC-5MBd Versatile Link POF receiver device in 30°-tilted package, designed to operate with any

Tilted receiver angle error compensated indoor ...

The tilted optical receiver is installed on a rotatable and retractable platform. The 3-D space is divided many two

Polynomial Fitting Functions for Visible Light Positioning Based on

Abstract In this work, we present the construction and comparison of three multivariate fitting functions to model the relation between

An Indoor Visible Light Positioning System Using Tilted LEDs ...

The accuracy of the received signal strength-based visible light positioning (VLP) system in indoor applications is

VLP positioning fashioned with a single tilted optical receiver

We propose a compact visible light indoor positioning system fashioned with a single transmitter and a single tilted

Tilted-angle insensitive received signal strength in visible light ...

In this work, we propose a positioning strategy using a deep neural network (DNN) trained by synthetic data to address

Indoor positioning based on received optical power difference by angle ...

Abstract An indoor optical wireless positioning system using a differential of power received by tilted multiple optical

Effect of the APD Receiver's Tilted Angle on Channel Capacity for ...

This paper focuses on investigating the effect of the receiver's tilted angle on the channel capacity of an underwater

Indoor Positioning System Based on Single LED Using Symmetrical Optical ...

We propose a novel visible light positioning (VLP) system based on a single light emitting diode (LED) using the symmetrical

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G01J1/00 — Photometry, e.g. photographic exposure meter G01J1/02 — Details G01J1/04 — Optical or mechanical part

Three-dimensional indoor visible light positioning system with a single ...

Based on a single transmitter and a single tilted optical receiver, a three-dimensional (3-D) indoor visible light positioning system is

Three-Dimensional Indoor Visible Light Positioning with a Tilt Receiver ...

In this paper, we studied the indoor VLP technology when the receiver is tilted, and we proposed an image-sensor

RedLink Receiver, 10 MBd, Tilted, Inverting, Dual Voltage

DC-10 MBd RedLink® fiber optic receiver, tilted orientation, inverting logic, 3.3V or 5V DC power supply.

How tilted optic discs may affect myopic eyes

The occurrence of tilted optic discs appears in about 1 to 2% of the population. While it is generally considered to be a

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://jrsekwele.co.za>

Email: info@jrsekwele.co.za

Phone: +31-20-794-2536

Address: Herengracht 47, 1015 BB Amsterdam, Netherlands

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