

Indoor Visible Light Communication Without Line Of Sight

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Indoor Visible Light Communication Without

Visible light communication (VLC) using indoor LED lighting generally assumes the existence of line of sight link in addition to multipath, delayed, lower power reflections. In this paper, we investigate the possibility to establish VLC links in shadowed areas, i.e., where the line of sight is blocked or unavailable.

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(PDF) Indoor visible light communication without line of ...

Beside these benefits, LEDs have high speed switching features which makes them a good candidate for short range, indoor wireless optical communication front end. This technology is known as visible light communication (VLC) which uses LEDs for both illumination and communication purposes Recently, VLC has emerged as either an alternative or a support system for some of the scenarios carried by radio frequency (RF) communication systems.

Seamless rate adaptation for indoor visible light ...

In the recent blog posts we have already introduced the most common methods for indoor positioning: Wi-Fi and Bluetooth. Both are already being used in various scenarios and have proved to be successful. VLC (visible light communication) is a new, interesting method which is about to reach market maturity.

Insft blog | Indoor Navigation, Indoor Positioning and ...

Visible Light Communication (VLC) is an attractive choice and has many desirable properties. Light Emitting Diodes (LEDs) allow the construction of low-cost communication systems [1]. VLC does not interfere with the use of the (scarce) radio spectrum, and VLC cannot be easily overheard in another room – to observe a message exchange that is

EnLighting: An Indoor Visible Light Communication System ...

An Indoor Visible Light Communication Positioning System Using a RF Carrier Allocation Technique Abstract: We propose a new indoor positioning system utilizing visible light communication. Intensity modulation/direct detection and carrier allocation methods are utilized in the proposed system.

An Indoor Visible Light Communication Positioning System ...

Interact Indoor navigation software enables a mobile application to access the real-time and accurate indoor geo-location of a mobile device via technology in the lighting. The software can use several inputs such as Visible Light Communication (VLC) and Bluetooth-Low-Energy (BLE) as well as phone sensors to determine the location and direction of travel of the device.

Indoor navigation and analytics | Interact Retail

In this paper, an integrated broadband power line and visible light communication systems with OFDM modulation is proposed for the indoor hospital applications. This gives a brand-new solution to replace the conventional wireless communication systems in hospitals.

Indoor hospital communication systems: An integrated ...

When signals reach the receiver through the indoor wireless channel, the photodiode will convert the optical signals to electrical ones and the original information will be recovered. The visible light communication based on LED is a novel developing technique in the optical wireless communication field.

A Visible Light Communication System for Indoor Application

The Internet of Things (IoT) envisions that many devices can connect to a network. Visible Light Communication (VLC) based on Light Emitting Diodes (LEDs) is an attractive communication fabric for ...

EnLighting: An Indoor Visible Light Communication System based on Networked Light Bulbs

Overcoming the above limitations, Visible Light Communication (VLC) is a preferred communication technique because of its high bandwidth and immunity to interference from electromagnetic sources. The revolution in the field of solid state lighting leads to the replacement of fluorescent lamps by Light Emitting Diodes (LEDs) which further motivates the usage of VLC.

Visible light communication: Applications, architecture ...

Mobisys 2015

Video: Lightweight Visible Light Communication for Indoor Positioning

A Multiuser MIMO Indoor Visible Light Communication System Using Spatial Multiplexing. Jie Lian, Student Member, IEEE, and Ma 'it'e Brandt-Pearce, Senior Member, IEEE. Abstract—Visible light communications is an energy efficient and cost effective solution for indoor wireless access.

A Multiuser MIMO Indoor Visible Light Communication System ...

transceiver apt for indoor visible light communication scenarios, with particular emphasis on the sampling clock synchronization issue. Starting from the characterization of a typical indoor VLC channel in terms of impulse response and Signal-to-Interference-plus-Noise Ratio (SINR), the paper shows how a high-speed, robust

Characterization of Indoor Visible Light Communication ...

Keywords—wireless optical data transmission system, visible light communication I. INTRODUCTION isible Light Communication (VLC) is a technology for receiving and sending data using white light, which is light in the visible spectrum. This technology is suitable to be used for transmitting data inside a building without

The Indoor Use Development for Visible Light Communication

Light-emitting diodes (LEDs) are changing indoor wireless communications. Visible light communications (VLC) that use LEDs as transmitters is an emerging research area and has significant commercial potential. The light emitted from LEDs can simultaneously carry information and provide illumination.

Indoor visible light communications, networking, and ...

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Indoor Positioning using Visible Light Communication - GitHub

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