

Indoor Positioning via Optical Wireless Switch

This emerging field essentially aims to replace GPS indoors. One of the primary competing methods in indoor OW positioning is angle-of-arrival (AOA). AOA positioning uses the received vectors from ...

The core principle of IOWP systems involves using optical signals emitted by indoor luminaries, such as lasers or light-emitting diodes, to determine the position of receivers within a defined area.

We present an indoor three-dimensional (3D) optical wireless positioning and azimuth estimation (OWPAE) scheme that utilizes steerable line lasers.

as well as its poor accuracy indoors, leads to a strong need for a robust indoor localization system. In this paper, we address this problem by introducing a new optical wireless.

A novel high-speed optical wireless communication system incorporating wavelength division multiplexing technology for indoor personal area networking applications is proposed in this ...

Understanding the characteristics of the underlying communication channel associated with an indoor environment is imperative to designing an efficient indoor optical wireless positioning ...

Optical wireless (OW) technologies are an emerging field utilizing optical sources to replace existing radio wavelength technologies. The vast majority of work in OW focuses on communication; ...

An indoor optical positioning technique using a differential photosensor device is presented. The method is based on angle of arrival information estimated by the differential ...

Understanding the characteristics of the underlying communication channel associated with an indoor environment is imperative to designing an ...

Abstract -- We propose an optical wireless indoor localization using light emitting diodes (LEDs) and demonstrate it via simulation. Unique frequency addresses are assigned to each LED lamp, and ...

What is Indoor Positioning with Optical Wireless? Indoor positioning with optical wireless uses modulated visible light from LEDs for RSSI, AoA, and ToF-based localization achieving cm-level ...

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