

Palestinian Visible Light Communication Module

Visible Light Communication (VLC) emerges as a transformative solution characterized by its high-speed transmission, minimal latency, cost-efficiency, and seamless installation.

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The performance of the VLC system is briefly discussed in this review article, as well as some of its prospective applications in the realms of the ...

Visible Light Communication is the name given to the type of communication in which data is sent through the modulation of light waves from the visible spectrum, ranging from 380 nm to 750 nm ...

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This paper mainly studies the visible light communication transmitter module based on LED, the visible light communication receiver module based on photoelectric detector and the ...

However, VLC also faces some challenges such as limited coverage range, interference from ambient light sources and mobility issues. In this paper, we present a comprehensive state-of ...

A VLC system has several key advantages: ultra-high data rate, secure communication channels, and a lack of interference from electromagnetic (EM) waves, which enable a wide range of ...

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Here, we review our recent works on visible light positioning and communication, including image sensor-based VLP, photodetector-based VLP, integrated VLC and VLP (VLCP) systems, and ...

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In this paper, we explore the fundamentals and challenges of indoor VLC systems. Basics of optical transmission such as transmitter, receiver, and links are investigated. Moreover, characteristics of ...

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