

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 ...

This book presents the state-of-the-art of visible light ing on the modulation and signal processing aspects. such as wide unregulated bandwidth, high security and radio frequency counterpart.

Visible light communication (VLC) is a new paradigm that could revolutionise the future of wireless communication. In VLC, information is ...

Visible light communication (VLC) has emerged as a transformative technology that leverages light as a carrier for wireless data transmission. This chapter delves into the fundamentals of VLC, beginning ...

To meet this need, we have developed a new ns3-based VLC module that can be used to study VLC-RF heterogeneous networks via simulation. The proposed ns3 module has been developed based on ...

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Classification of VLC channel models according to four environments (indoor, outdoor, underwater, and underground). Synthesis and discussions including the most used approaches for ...

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 ...

Visible light communication (VLC) is a new paradigm that could revolutionise the future of wireless communication. In VLC, information is transmitted through modulating the visible light ...

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 ...

In this paper, we have studied the main concepts of and challenges to VLC. In this paper, we have also studied the overview of VLC technology, from its physical aspects and communication architecture to ...

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