

Image and Text Transmission using Li-Fi Technology

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Abstract: *This research paper focuses on the use of LiFi (Light Fidelity) technology for the transmission of image and text data. LiFi technology is an emerging technology that uses visible light communication (VLC) for data transmission, providing a high-speed and secure wireless communication system. In this project, a LiFi system is developed using an LED (Light Emitting Diode) bulb and a photodiode receiver to transmit and receive data. The system is tested for its ability to transmit image and text data at a high speed and with minimal interference. The results show that LiFi technology can provide a viable alternative to traditional wireless communication systems for certain applications, such as indoor communication and data transfer, where security and high-speed data transfer are essential. Overall, this research demonstrates the potential of LiFi technology as a reliable and secure means of wireless data transmission.*

Keywords: LiFi technology

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