

A Study on Li-Fi Technology and its Various Applications

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I. INTRODUCTION

Li-Fi (Light Fidelity) is a high speed, wireless communication using visible light. It is categorized under optical wireless communications. Transmission of data takes place through LED bulbs whose intensity varies.

The word Li-Fi was first coined by Harald Haas at the University of Edinburgh. This technology has vast applications where the use of Wi-Fi is limited or banned. It also reduces the health effects of using electromagnetic waves. Unless light is seen, data can't be hacked and so data transmission is secure. Data transmission is in terms of Gbps.