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Data Communication Using Li-Fi Technology

Tania Riaz
Nuzhat Imtiaz
Sumayya Izhhar

Department of Computer Engineering

Bahria University, Karachi Campus

Submission Performa

Name (1) .....(Tania Riaz)

(2) .....(Nuzhat Imtiaz)

(3) ..... (Sumayya Izhar)

Address (1) ..... (BUKC)

(2)..... (BUKC)

(3)..... (BUKC)

Title: Data Communication Using Li-Fi Technology

Project Supervisor's Name: Engr. Usra Sami

This report is submitted as required for the Project in accordance with the rules laid down by the Bahria University as part of the requirements for the award of the degree of Bachelor of Engineering. I/We declare that the work presented in this report is my/our own except where due reference or acknowLEDgement is given to the work of others.

Signatures of students	Date
(1).....	20/7/2020
(2).....	20/7/2020
(3).....	20/7/2020

Signature of Supervisor..... Date 20/7/20.

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Abstract

Li-Fi is consider as the technology of VLC i.e. Visible Light Communication. It could be implement by using visible light or illumination and so Li-Fi could be implement by using LEDs on transmitter and receiver sides or by connecting IR transmitter and receiver LEDs on both sides. The technology proposed by scientists to overcome the problem of limited spectrum of radio waves as whole world is using radio waves to wireless communication. Li-Fi is not proposed to replace Wi-Fi but it could be use as parallel to each other and by this some of the drawback of Wi-Fi could overcome by using Li-Fi.

We implemented our project by using IR LEDs on transmitter and receiver.

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